


**Non Acidic Wheel Cleaner  
L015**

Date of compilation: 18/10/2023    Revised: 19/07/2024    Version: 3 (Replaced 2)

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

- 1.1 Product identifier:** Non Acidic Wheel Cleaner  
L015
- Other means of identification:**  
ALS001/04
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**  
Relevant uses: Detergent. For professional users/industrial user only.  
Uses advised against: All uses not specified in this section or in section 7.3
- 1.3 Details of the supplier of the safety data sheet:**  
Nielsen Chemicals  
Rawdon Road, Moira,  
DE12 6DA, Swadlincote - Derbyshire - United Kingdom  
Phone: 01283 222277  
info@nielsenchemicals.com  
www.nielsenchemicals.com
- 1.4 Emergency telephone number:** For 24/7 multilingual advice for spill, leak, fire, exposure, or accident Call CHEMTREC at +44 20 3885 0382 / +44 20 3807 3798 and provide CCN 1018675; NPIS: 0844 892 0111 (healthcare professionals only) or NHS 111.

**SECTION 2: HAZARDS IDENTIFICATION**

- 2.1 Classification of the substance or mixture:**  
**GB CLP Regulation (UK S.I. 2019/720 and UK S.I. 2020/1567):**  
Classification of this product has been carried out in accordance with GB CLP Regulation (UK S.I. 2019/720 and UK S.I. 2020/1567).  
Aquatic Chronic 3: Hazardous to the aquatic environment, long-term hazard, Category 3, H412  
Eye Dam. 1: Serious eye damage, Category 1, H318  
Met. Corr. 1: Corrosive to metals, Category 1, H290  
Skin Corr. 1: Skin corrosion, Category 1, H314
- 2.2 Label elements:**  
**GB CLP Regulation (UK S.I. 2019/720 and UK S.I. 2020/1567):**  
Danger
- 
- Hazard statements:**  
Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.  
Met. Corr. 1: H290 - May be corrosive to metals.  
Skin Corr. 1: H314 - Causes severe skin burns and eye damage.
- Precautionary statements:**  
P234: Keep only in original container.  
P280: Wear protective gloves/face protection/protective clothing/respiratory protection/protective footwear.  
P301+P330+P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/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/doctor.  
P501: Dispose of the contents/containers in accordance with the current legislation on waste treatment
- Substances that contribute to the classification**  
sodium hydroxide (CAS: 1310-73-2)
- 2.3 Other hazards:**  
Product does not meet PBT/vPvB criteria

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

- 3.1 Substance:**

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**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)**

Non-applicable

**3.2 Mixture:**

**Chemical description:** Aqueous solution based on complexing agents, alkalis and dispersants.

**Components:**

In accordance with Annex II of The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020, the product contains:

| Identification   | Chemical name/Classification   | Concentration |
|------------------|--|---------------|
| CAS: 1310-73-2   | <b>sodium hydroxide</b><br>Eye Dam. 1: H318; Met. Corr. 1: H290; Skin Corr. 1A: H314 - Danger  | 3 - <10 %     |
| CAS: 96690-44-7  | <b>Quaternary ammonium compounds, C12-14-alkyltrimethyl, Me sulfates</b><br>Acute Tox. 3: H311; Acute Tox. 4: H302; Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Eye Dam. 1: H318; Skin Corr. 1B: H314 - Danger | 1 - <3 %      |
| CAS: 68424-85-1  | <b>Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides</b><br>Acute Tox. 4: H302; Aquatic Acute 1: H400; Aquatic Chronic 2: H411; Met. Corr. 1: H290; Skin Corr. 1B: H314 - Danger               | <1 %          |
| CAS: 57-55-6     | <b>Propane-1,2-diol</b>  | <1 %          |
| CAS: 160901-19-9 | <b>Alcohols, C12-13- branched and linear, ethoxylated (&gt;= 2.5 mol EO)</b><br>Aquatic Acute 1: H400; Aquatic Chronic 3: H412; Eye Irrit. 2: H319 - Warning   | <1 %          |
| CAS: 64-17-5     | <b>ethanol</b><br>Flam. Liq. 2: H225 - Danger  | <1 %          |
| CAS: 67-56-1     | <b>methanol</b><br>Acute Tox. 3: H301+H311+H331; Flam. Liq. 2: H225; STOT SE 1: H370 - Danger  | <1 %          |

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

Acute toxicity estimate for the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or as determined in accordance with Annex I to that Regulation:

| Identification   | Acute toxicity  |               | Genus  |
|--|-----------------|---------------|--------|
| Quaternary ammonium compounds, C12-14-alkyltrimethyl, Me sulfates<br>CAS: 96690-44-7     | LD50 oral       | 570 mg/kg     | Rat    |
|  | LD50 dermal     | 429 mg/kg     | Rabbit |
|  | LC50 inhalation | Not relevant  |        |
| Propane-1,2-diol<br>CAS: 57-55-6   | LD50 oral       | Not relevant  |        |
|  | LD50 dermal     | Not relevant  |        |
|  | LC50 inhalation | 41 mg/L (4 h) | Rat    |
| Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides<br>CAS: 68424-85-1 | LD50 oral       | 500 mg/kg     | Rat    |
|  | LD50 dermal     | Not relevant  |        |
|  | LC50 inhalation | Not relevant  |        |
| methanol<br>CAS: 67-56-1   | LD50 oral       | 100 mg/kg     |        |
|  | LD50 dermal     | 300 mg/kg     |        |
|  | LC50 inhalation | Not relevant  |        |

**SECTION 4: FIRST AID MEASURES**

**4.1 Description of first aid measures:**

Request medical assistance immediately, showing the SDS of this product.

**By inhalation:**

This product is not classified as hazardous through inhalation. However, in case of intoxication symptoms it is recommended to remove the person affected from the area of exposure, provide clean air and keep at rest. Request medical attention if symptoms persist.

**By skin contact:**

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

**By eye contact:**

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**SECTION 4: FIRST AID MEASURES (continued)**

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

**By ingestion/aspiration:**

Request immediate medical assistance, showing the SDS of this product. Do not induce vomiting, because its expulsion from the stomach can be hazardous to the mucus of the main digestive tract, and also risk damage to the respiratory system through inhalation. Rinse out the mouth and throat, as they may have been affected during ingestion. In the case of loss of consciousness do not administer anything orally unless supervised by a doctor. Keep the person affected at rest.

**4.2 Most important symptoms and effects, both acute and delayed:**

Acute and delayed effects are indicated in sections 2 and 11.

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

Not relevant

**SECTION 5: FIREFIGHTING MEASURES****5.1 Extinguishing media:****Suitable extinguishing media:**

Product is non-flammable under normal conditions of storage, manipulation and use, but the product contains flammable substances. In the case of inflammation as a result of improper manipulation, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems.

**Unsuitable extinguishing media:**

IT IS RECOMMENDED NOT to use full jet water as an extinguishing agent.

**5.2 Special hazards arising from the substance or mixture:**

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

**5.3 Advice for firefighters:**

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...).

**Additional provisions:**

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

**SECTION 6: ACCIDENTAL RELEASE MEASURES****6.1 Personal precautions, protective equipment and emergency procedures:****For non-emergency personnel:**

Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inert medium. Remove any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

**For emergency responders:**

Wear protective equipment. Keep unprotected persons away. See section 8.

**6.2 Environmental precautions:**

Avoid at all cost any type of spillage into an aqueous medium. Contain the product absorbed appropriately in hermetically sealed containers. Notify the relevant authority in case of exposure to the general public or the environment.

**6.3 Methods and material for containment and cleaning up:**

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

**6.4 Reference to other sections:**

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**SECTION 6: ACCIDENTAL RELEASE MEASURES (continued)**

See sections 8 and 13.

**SECTION 7: HANDLING AND STORAGE**

**7.1 Precautions for safe handling:**

A.- General precautions for safe use

Comply with the current legislation concerning the prevention of industrial risks. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.  
**KEEP ONLY IN ORIGINAL PACKAGING.**

B.- Technical recommendations for the prevention of fires and explosions

Avoid the evaporation of the product as it contains flammable substances, which could form flammable vapour/air mixtures in the presence of sources of ignition. Control sources of ignition (mobile phones, sparks,...) and transfer at slow speeds to avoid the creation of electrostatic charges. Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations on general occupational hygiene

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

Due to the danger of this product for the environment it is recommended to use it within an area containing contamination control barriers in case of spillage, as well as having absorbent material in close proximity.

**7.2 Conditions for safe storage, including any incompatibilities:**

A.- Specific storage requirements

Minimum Temp.: 4 °C

Maximum Temp.: 40 °C

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

**7.3 Specific end use(s):**

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1 Control parameters:**

Substances whose occupational exposure limits have to be monitored in the workplace:

EH40/2005 Workplace exposure limits, fourth edition, published 2020:

| Identification                          | Occupational exposure limits |          |                        |
|---|------------------------------|----------|------------------------|
|   | WEL (8h)                     |          |                        |
| sodium hydroxide<br>CAS: 1310-73-2      | WEL (15 min)                 |          | 2 mg/m <sup>3</sup>    |
| Propane-1,2-diol<br>CAS: 57-55-6        | WEL (8h)                     | 150 ppm  | 474 mg/m <sup>3</sup>  |
|   | WEL (15 min)                 |          |                        |
| ethanol<br>CAS: 64-17-5                 | WEL (8h)                     | 1000 ppm | 1920 mg/m <sup>3</sup> |
|   | WEL (15 min)                 |          |                        |
| methanol <sup>(1)</sup><br>CAS: 67-56-1 | WEL (8h)                     | 200 ppm  | 266 mg/m <sup>3</sup>  |
|   | WEL (15 min)                 | 250 ppm  | 333 mg/m <sup>3</sup>  |

<sup>(1)</sup> Skin

**DNEL (Workers):**

| Identification                                      |            | Short exposure |              | Long exposure |                     |
|---|------------|----------------|--------------|---------------|---------------------|
|   |            | Systemic       | Local        | Systemic      | Local               |
| sodium hydroxide<br>CAS: 1310-73-2<br>EC: 215-185-5 | Oral       | Not relevant   | Not relevant | Not relevant  | Not relevant        |
|   | Dermal     | Not relevant   | Not relevant | Not relevant  | Not relevant        |
|   | Inhalation | Not relevant   | Not relevant | Not relevant  | 1 mg/m <sup>3</sup> |

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**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)**

| Identification   |            | Short exposure        |                       | Long exposure         |                       |
|--|------------|-----------------------|-----------------------|-----------------------|-----------------------|
|  |            | Systemic              | Local                 | Systemic              | Local                 |
| Quaternary ammonium compounds, C12-14-alkyltrimethyl, Me sulfates<br>CAS: 96690-44-7<br>EC: 306-238-4        | Oral       | Not relevant          | Not relevant          | Not relevant          | Not relevant          |
|  | Dermal     | Not relevant          | Not relevant          | Not relevant          | Not relevant          |
|  | Inhalation | Not relevant          | Not relevant          | Not relevant          | 1 mg/m <sup>3</sup>   |
| Propane-1,2-diol<br>CAS: 57-55-6<br>EC: 200-338-0  | Oral       | Not relevant          | Not relevant          | Not relevant          | Not relevant          |
|  | Dermal     | Not relevant          | Not relevant          | Not relevant          | Not relevant          |
|  | Inhalation | Not relevant          | Not relevant          | 168 mg/m <sup>3</sup> | 10 mg/m <sup>3</sup>  |
| Alcohols, C12-13- branched and linear, ethoxylated (>= 2.5 mol EO)<br>CAS: 160901-19-9<br>EC: Non-applicable | Oral       | Not relevant          | Not relevant          | Not relevant          | Not relevant          |
|  | Dermal     | Not relevant          | Not relevant          | 2080 mg/kg            | Not relevant          |
|  | Inhalation | Not relevant          | Not relevant          | 294 mg/m <sup>3</sup> | Not relevant          |
| ethanol<br>CAS: 64-17-5<br>EC: 200-578-6   | Oral       | Not relevant          | Not relevant          | Not relevant          | Not relevant          |
|  | Dermal     | Not relevant          | Not relevant          | 343 mg/kg             | Not relevant          |
|  | Inhalation | Not relevant          | Not relevant          | 950 mg/m <sup>3</sup> | Not relevant          |
| methanol<br>CAS: 67-56-1<br>EC: 200-659-6  | Oral       | Not relevant          | Not relevant          | Not relevant          | Not relevant          |
|  | Dermal     | 20 mg/kg              | Not relevant          | 20 mg/kg              | Not relevant          |
|  | Inhalation | 130 mg/m <sup>3</sup> | 130 mg/m <sup>3</sup> | 130 mg/m <sup>3</sup> | 130 mg/m <sup>3</sup> |

**DNEL (General population):**

| Identification   |            | Short exposure       |                      | Long exposure         |                      |
|--|------------|----------------------|----------------------|-----------------------|----------------------|
|  |            | Systemic             | Local                | Systemic              | Local                |
| sodium hydroxide<br>CAS: 1310-73-2<br>EC: 215-185-5  | Oral       | Not relevant         | Not relevant         | Not relevant          | Not relevant         |
|  | Dermal     | Not relevant         | Not relevant         | Not relevant          | Not relevant         |
|  | Inhalation | Not relevant         | Not relevant         | Not relevant          | 1 mg/m <sup>3</sup>  |
| Quaternary ammonium compounds, C12-14-alkyltrimethyl, Me sulfates<br>CAS: 96690-44-7<br>EC: 306-238-4        | Oral       | Not relevant         | Not relevant         | Not relevant          | Not relevant         |
|  | Dermal     | Not relevant         | Not relevant         | Not relevant          | Not relevant         |
|  | Inhalation | Not relevant         | Not relevant         | Not relevant          | 1 mg/m <sup>3</sup>  |
| Propane-1,2-diol<br>CAS: 57-55-6<br>EC: 200-338-0  | Oral       | Not relevant         | Not relevant         | Not relevant          | Not relevant         |
|  | Dermal     | Not relevant         | Not relevant         | Not relevant          | Not relevant         |
|  | Inhalation | Not relevant         | Not relevant         | 50 mg/m <sup>3</sup>  | 10 mg/m <sup>3</sup> |
| Alcohols, C12-13- branched and linear, ethoxylated (>= 2.5 mol EO)<br>CAS: 160901-19-9<br>EC: Non-applicable | Oral       | Not relevant         | Not relevant         | 25 mg/kg              | Not relevant         |
|  | Dermal     | Not relevant         | Not relevant         | 1250 mg/kg            | Not relevant         |
|  | Inhalation | Not relevant         | Not relevant         | 87 mg/m <sup>3</sup>  | Not relevant         |
| ethanol<br>CAS: 64-17-5<br>EC: 200-578-6   | Oral       | Not relevant         | Not relevant         | 87 mg/kg              | Not relevant         |
|  | Dermal     | Not relevant         | Not relevant         | 206 mg/kg             | Not relevant         |
|  | Inhalation | Not relevant         | Not relevant         | 114 mg/m <sup>3</sup> | Not relevant         |
| methanol<br>CAS: 67-56-1<br>EC: 200-659-6  | Oral       | 4 mg/kg              | Not relevant         | 4 mg/kg               | Not relevant         |
|  | Dermal     | 4 mg/kg              | Not relevant         | 4 mg/kg               | Not relevant         |
|  | Inhalation | 26 mg/m <sup>3</sup> | 26 mg/m <sup>3</sup> | 26 mg/m <sup>3</sup>  | 26 mg/m <sup>3</sup> |

**PNEC:**

| Identification  |              |               |                         |                 |
|---|--------------|---------------|-------------------------|-----------------|
| Quaternary ammonium compounds, C12-14-alkyltrimethyl, Me sulfates<br>CAS: 96690-44-7<br>EC: 306-238-4 | STP          | 0.9 mg/L      | Fresh water             | 0.0000103 mg/L  |
|   | Soil         | 0.00582 mg/kg | Marine water            | 0.00000103 mg/L |
|   | Intermittent | 0.000103 mg/L | Sediment (Fresh water)  | 0.029 mg/kg     |
|   | Oral         | Not relevant  | Sediment (Marine water) | 0.00291 mg/kg   |
| Propane-1,2-diol<br>CAS: 57-55-6<br>EC: 200-338-0   | STP          | 20000 mg/L    | Fresh water             | 260 mg/L        |
|   | Soil         | 50 mg/kg      | Marine water            | 26 mg/L         |
|   | Intermittent | 183 mg/L      | Sediment (Fresh water)  | 572 mg/kg       |
|   | Oral         | Not relevant  | Sediment (Marine water) | 57.2 mg/kg      |

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**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)**


| Identification  |              |              |                         |             |
|---|--------------|--------------|-------------------------|-------------|
| Alcohols, C12-13- branched and linear, ethoxylated ( $\geq 2.5$ mol EO)<br>CAS: 160901-19-9<br>EC: Non-applicable | STP          | 10000 mg/L   | Fresh water             | 0.08 mg/L   |
|   | Soil         | 1 mg/kg      | Marine water            | 0.008 mg/L  |
|   | Intermittent | 0.003 mg/L   | Sediment (Fresh water)  | 63.83 mg/kg |
|   | Oral         | Not relevant | Sediment (Marine water) | 6.38 mg/kg  |
| ethanol<br>CAS: 64-17-5<br>EC: 200-578-6  | STP          | 580 mg/L     | Fresh water             | 0.96 mg/L   |
|   | Soil         | 0.63 mg/kg   | Marine water            | 0.79 mg/L   |
|   | Intermittent | 2.75 mg/L    | Sediment (Fresh water)  | 3.6 mg/kg   |
|   | Oral         | 0.38 g/kg    | Sediment (Marine water) | 2.9 mg/kg   |
| methanol<br>CAS: 67-56-1<br>EC: 200-659-6   | STP          | 100 mg/L     | Fresh water             | 20.8 mg/L   |
|   | Soil         | 100 mg/kg    | Marine water            | 2.08 mg/L   |
|   | Intermittent | 1540 mg/L    | Sediment (Fresh water)  | 77 mg/kg    |
|   | Oral         | Not relevant | Sediment (Marine water) | 7.7 mg/kg   |

**8.2 Exposure controls:**



A.- Individual protection measures, such as personal protective equipment

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<UKCA marking>> or <<CE marking>>. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection


| Pictogram  | PPE   | Remarks  |
|--|---|--|
| <br>Compulsory use of face mask | Filter mask for particles (Filter type: FFP1) | Replace when an increase in resistance to breathing is observed. |

C.- Specific protection for the hands

| Pictogram  | PPE   | Remarks  |
|--|---|--|
| <br>Mandatory hand protection | Chemical protective gloves (Material: Nitrile/Neoprene, Breakthrough time: > 480 min, Thickness: 0.062 mm, Conditions of use: Normal)       | Replace the gloves at any sign of deterioration. |
| <br>Mandatory hand protection | Chemical protective gloves (Material: Latex (natural rubber), Breakthrough time: > 480 min, Thickness: 0.062 mm, Conditions of use: Normal) | Replace the gloves at any sign of deterioration. |

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.

D.- Eye and face protection

| Pictogram  | PPE         | Remarks   |
|--|-------------|---|
| <br>Mandatory face protection | Face shield | Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing. |

E.- Body protection

| Pictogram | PPE           | Remarks   |
|-----------|---------------|---|
|           | Work clothing | Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 6529:2013, EN ISO 6530:2005, EN ISO 13688:2013, EN 464:1994. |

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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)**

|                                  |                        |
|----------------------------------|------------------------|
| Melting point/freezing point:    | Not relevant *         |
| <b>Flammability:</b>             |                        |
| Flash Point:                     | Non Flammable (>60 °C) |
| Flammability (solid, gas):       | Not relevant *         |
| Autoignition temperature:        | 421 °C                 |
| Lower flammability limit:        | Not relevant *         |
| Upper flammability limit:        | Not relevant *         |
| <b>Particle characteristics:</b> |                        |
| Median equivalent diameter:      | Non-applicable         |

**9.2 Other information:**

**Information with regard to physical hazard classes:**

|  |                                  |
|--|----------------------------------|
| Explosive properties:  | Not relevant *                   |
| Oxidising properties:  | Not relevant *                   |
| Corrosive to metals:   | H290 May be corrosive to metals. |
| Heat of combustion:  | Not relevant *                   |
| Aerosols-total percentage (by mass) of flammable components: | Not relevant *                   |

**Other safety characteristics:**

|                           |                |
|---------------------------|----------------|
| Surface tension at 20 °C: | Not relevant * |
| Refraction index:         | Not relevant * |

\*Not relevant due to the nature of the product, not providing information property of its hazards.

**SECTION 10: STABILITY AND REACTIVITY**

**10.1 Reactivity:**

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7 from Safety Data Sheet.

**10.2 Chemical stability:**

Chemically stable under the indicated conditions of storage, handling and use.

**10.3 Possibility of hazardous reactions:**

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

**10.4 Conditions to avoid:**

Applicable for handling and storage at room temperature:

| Shock and friction | Contact with air | Increase in temperature | Sunlight   | Humidity       |
|--------------------|------------------|-------------------------|------------|----------------|
| Not applicable     | Not applicable   | Precaution              | Precaution | Not applicable |

**10.5 Incompatible materials:**

| Acids              | Water          | Oxidising materials | Combustible materials | Others         |
|--------------------|----------------|---------------------|-----------------------|----------------|
| Avoid strong acids | Not applicable | Precaution          | Not applicable        | Not applicable |

**10.6 Hazardous decomposition products:**

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO<sub>2</sub>), carbon monoxide and other organic compounds.

**SECTION 11: TOXICOLOGICAL INFORMATION**

**11.1 Information on toxicological effects:**

The experimental information related to the toxicological properties of the product itself is not available

**Dangerous health implications:**

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**SECTION 11: TOXICOLOGICAL INFORMATION (continued)**

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

A- Ingestion (acute effect):

- Acute toxicity: Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
- Corrosivity/Irritability: Corrosive product, if it is swallowed causes burns destroying the tissues. For more information about secondary effects from skin contact see section 2.

B- Inhalation (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Prolonged inhalation of the product is corrosive to mucous membranes and the upper respiratory tract

C- Contact with the skin and the eyes (acute effect):

- Contact with the skin: Above all, skin contact may occur as fabrics of all thicknesses can be destroyed, resulting in burns. For more information on the secondary effects see section 2.
- Contact with the eyes: Produces serious eye damage after contact.

D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

- Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned. For more information see section 3.
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

F- Specific target organ toxicity (STOT) - single exposure:

Based on available data, the classification criteria are not met. However, it does contain substances which are classified as dangerous as a result of a single exposure. For more information see section 3.

G- Specific target organ toxicity (STOT)-repeated exposure:

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

**Other information:**

Not relevant

**Specific toxicology information on the substances:**

| Identification   | Acute toxicity  |                  | Genus  |
|--|-----------------|------------------|--------|
|  | LD50 oral       | LD50 dermal      |        |
| sodium hydroxide<br>CAS: 1310-73-2   | LD50 oral       | >2000 mg/kg      |        |
|  | LD50 dermal     | >5000 mg/kg      |        |
|  | LC50 inhalation | >5 mg/L          |        |
| Quaternary ammonium compounds, C12-14-alkyltrimethyl, Me sulfates<br>CAS: 96690-44-7     | LD50 oral       | 570 mg/kg (ATEi) | Rat    |
|  | LD50 dermal     | 429 mg/kg        | Rabbit |
|  | LC50 inhalation | >20 mg/L         |        |
| Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides<br>CAS: 68424-85-1 | LD50 oral       | 500 mg/kg        | Rat    |
|  | LD50 dermal     | >5000 mg/kg      |        |
|  | LC50 inhalation | >20 mg/L         |        |
| Propane-1,2-diol<br>CAS: 57-55-6   | LD50 oral       | >22000 mg/kg     |        |
|  | LD50 dermal     | >2000 mg/kg      |        |
|  | LC50 inhalation | 41 mg/L (4 h)    | Rat    |

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**SECTION 11: TOXICOLOGICAL INFORMATION (continued)**

| Identification  | Acute toxicity  |                  | Genus  |
|---|-----------------|------------------|--------|
|   | LD50 oral       | LD50 dermal      |        |
| Alcohols, C12-13- branched and linear, ethoxylated ( $\geq$ 2.5 mol EO)<br>CAS: 160901-19-9 | LD50 oral       | >5000 mg/kg      |        |
|   | LD50 dermal     | >5000 mg/kg      |        |
|   | LC50 inhalation | >20 mg/L         |        |
| ethanol<br>CAS: 64-17-5   | LD50 oral       | 6200 mg/kg       | Rat    |
|   | LD50 dermal     | 20000 mg/kg      | Rabbit |
|   | LC50 inhalation | 124.7 mg/L (4 h) | Rat    |
| methanol<br>CAS: 67-56-1  | LD50 oral       | 100 mg/kg        |        |
|   | LD50 dermal     | 300 mg/kg        |        |
|   | LC50 inhalation | 3 mg/L (4 h)     | Rat    |

**SECTION 12: ECOLOGICAL INFORMATION**

The experimental information related to the eco-toxicological properties of the product itself is not available

Harmful to aquatic life with long lasting effects.

**12.1 Toxicity:**

**Acute toxicity:**

| Identification  | Concentration |                      | Species                   | Genus      |
|---|---------------|----------------------|---------------------------|------------|
|   | LC50          | EC50                 |                           |            |
| sodium hydroxide<br>CAS: 1310-73-2  | LC50          | 189 mg/L (48 h)      | Leuciscus idus            | Fish       |
|   | EC50          | 33 mg/L              | Crangon crangon           | Crustacean |
|   | EC50          | Not relevant         |                           |            |
| Quaternary ammonium compounds, C12-14-alkyltrimethyl, Me sulfates<br>CAS: 96690-44-7        | LC50          | >0.1 - 1 mg/L (96 h) |                           | Fish       |
|   | EC50          | >0.1 - 1 mg/L (48 h) |                           | Crustacean |
|   | EC50          | >0.1 - 1 mg/L (72 h) |                           | Algae      |
| Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides<br>CAS: 68424-85-1    | LC50          | 0.85 mg/L (96 h)     | Oncorhynchus mykiss       | Fish       |
|   | EC50          | 0.016 mg/L (48 h)    | Daphnia magna             | Crustacean |
|   | EC50          | 0.026 mg/L (72 h)    | Desmodesmus subspicatus   | Algae      |
| Propane-1,2-diol<br>CAS: 57-55-6  | LC50          | 51400 mg/L (96 h)    | Pimephales promelas       | Fish       |
|   | EC50          | 10000 mg/L (24 h)    | Daphnia magna             | Crustacean |
|   | EC50          | 19100 mg/L (336 h)   | Selenastrum capricornutum | Algae      |
| Alcohols, C12-13- branched and linear, ethoxylated ( $\geq$ 2.5 mol EO)<br>CAS: 160901-19-9 | LC50          | >0.1 - 1 mg/L (96 h) |                           | Fish       |
|   | EC50          | >0.1 - 1 mg/L (48 h) |                           | Crustacean |
|   | EC50          | >0.1 - 1 mg/L (72 h) |                           | Algae      |
| ethanol<br>CAS: 64-17-5   | LC50          | 11000 mg/L (96 h)    | Alburnus alburnus         | Fish       |
|   | EC50          | 9268 mg/L (48 h)     | Daphnia magna             | Crustacean |
|   | EC50          | 1450 mg/L (192 h)    | Microcystis aeruginosa    | Algae      |
| methanol<br>CAS: 67-56-1  | LC50          | 15400 mg/L (96 h)    | Lepomis macrochirus       | Fish       |
|   | EC50          | 12000 mg/L (96 h)    | Nitrocras spinipes        | Crustacean |
|   | EC50          | 530 mg/L (168 h)     | Microcystis aeruginosa    | Algae      |

**Chronic toxicity:**

| Identification   | Concentration |              | Species            | Genus      |
|--|---------------|--------------|--------------------|------------|
|  | NOEC          | EC50         |                    |            |
| Quaternary ammonium compounds, C12-14-alkyltrimethyl, Me sulfates<br>CAS: 96690-44-7 | NOEC          | Not relevant |                    |            |
|  | NOEC          | 0.05 mg/L    | Daphnia magna      | Crustacean |
| Propane-1,2-diol<br>CAS: 57-55-6   | NOEC          | Not relevant |                    |            |
|  | NOEC          | 13020 mg/L   | Ceriodaphnia sp.   | Crustacean |
| ethanol<br>CAS: 64-17-5  | NOEC          | 250 mg/L     | Danio rerio        | Fish       |
|  | NOEC          | 2 mg/L       | Ceriodaphnia dubia | Crustacean |
| methanol<br>CAS: 67-56-1   | NOEC          | 15800 mg/L   | Oryzias latipes    | Fish       |
|  | NOEC          | 122 mg/L     | Daphnia magna      | Crustacean |

**12.2 Persistence and degradability:**

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**SECTION 12: ECOLOGICAL INFORMATION (continued)**

**Substance-specific information:**

| Identification   | Degradability |              | Biodegradability |              |
|--|---------------|--------------|------------------|--------------|
|  | Parameter     | Value        | Parameter        | Value        |
| Quaternary ammonium compounds, C12-14-alkyltrimethyl, Me sulfates<br>CAS: 96690-44-7     | BOD5          | Not relevant | Concentration    | 5 mg/L       |
|  | COD           | Not relevant | Period           | 28 days      |
|  | BOD5/COD      | Not relevant | % Biodegradable  | 75 %         |
| Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides<br>CAS: 68424-85-1 | BOD5          | Not relevant | Concentration    | Not relevant |
|  | COD           | Not relevant | Period           | Not relevant |
|  | BOD5/COD      | Not relevant | % Biodegradable  | 60 %         |
| Propane-1,2-diol<br>CAS: 57-55-6   | BOD5          | 1.08 g O2/g  | Concentration    | 100 mg/L     |
|  | COD           | 1.63 g O2/g  | Period           | 28 days      |
|  | BOD5/COD      | 0.66         | % Biodegradable  | 90 %         |
| ethanol<br>CAS: 64-17-5  | BOD5          | Not relevant | Concentration    | 100 mg/L     |
|  | COD           | Not relevant | Period           | 14 days      |
|  | BOD5/COD      | Not relevant | % Biodegradable  | 89 %         |
| methanol<br>CAS: 67-56-1   | BOD5          | Not relevant | Concentration    | 100 mg/L     |
|  | COD           | 1.42 g O2/g  | Period           | 14 days      |
|  | BOD5/COD      | Not relevant | % Biodegradable  | 92 %         |

**12.3 Bioaccumulative potential:**

**Substance-specific information:**

| Identification   | Bioaccumulation potential |       |
|--|---------------------------|-------|
|  | Parameter                 | Value |
| Quaternary ammonium compounds, C12-14-alkyltrimethyl, Me sulfates<br>CAS: 96690-44-7 | BCF                       |       |
|  | Pow Log                   | 3.5   |
|  | Potential                 |       |
| Propane-1,2-diol<br>CAS: 57-55-6   | BCF                       | 1     |
|  | Pow Log                   | -0.92 |
|  | Potential                 | Low   |
| ethanol<br>CAS: 64-17-5  | BCF                       | 3     |
|  | Pow Log                   | -0.31 |
|  | Potential                 | Low   |
| methanol<br>CAS: 67-56-1   | BCF                       | 3     |
|  | Pow Log                   | -0.77 |
|  | Potential                 | Low   |

**12.4 Mobility in soil:**

| Identification                   | Absorption/desorption |                      | Volatility |                                |
|----------------------------------|-----------------------|----------------------|------------|--------------------------------|
|                                  | Parameter             | Value                | Parameter  | Value                          |
| Propane-1,2-diol<br>CAS: 57-55-6 | Koc                   | Not relevant         | Henry      | Not relevant                   |
|                                  | Conclusion            | Not relevant         | Dry soil   | Not relevant                   |
|                                  | Surface tension       | 3.547E-2 N/m (25 °C) | Moist soil | Not relevant                   |
| ethanol<br>CAS: 64-17-5          | Koc                   | 1                    | Henry      | 4.61E-1 Pa·m <sup>3</sup> /mol |
|                                  | Conclusion            | Very High            | Dry soil   | Yes                            |
|                                  | Surface tension       | 2.339E-2 N/m (25 °C) | Moist soil | Yes                            |
| methanol<br>CAS: 67-56-1         | Koc                   | Not relevant         | Henry      | Not relevant                   |
|                                  | Conclusion            | Not relevant         | Dry soil   | Not relevant                   |
|                                  | Surface tension       | 2.355E-2 N/m (25 °C) | Moist soil | Not relevant                   |

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

Product does not meet PBT/vPvB criteria

**12.6 Other adverse effects:**

Not described

**SECTION 13: DISPOSAL CONSIDERATIONS**

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**SECTION 13: DISPOSAL CONSIDERATIONS (continued)**

**13.1 Waste treatment methods:**

| Code      | Description                                | Waste class |
|-----------|--|-------------|
| 20 01 29* | detergents containing hazardous substances | Hazardous   |

**Type of waste:**

HP8 Corrosive, HP14 Ecotoxic

**Waste management (disposal and evaluation):**

Consult the authorized waste service manager on the assessment and disposal operations in accordance The Waste (England & Wales) Regulations 2011, 2011 No. 988. As under 15 01 of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-hazardous residue. Waste should not be disposed of to drains. See paragraph 6.2.

**Regulations related to waste management:**

In accordance with Annex II of UK REACH the provisions related to waste management are stated:

UK legislation: The Waste (England & Wales) Regulations 2011.

**SECTION 14: TRANSPORT INFORMATION**

**Transport of dangerous goods by land:**

With regard to ADR 2023 and RID 2023:



- 14.1 UN number:** UN1760
- 14.2 UN proper shipping name:** CORROSIVE LIQUID, N.O.S. (sodium hydroxide)
- 14.3 Transport hazard class(es):** 8
- Labels:** 8
- 14.4 Packing group:** II
- 14.5 Environmental hazards:** No
- 14.6 Special precautions for user**
  - Tunnel restriction code: E
  - Physico-Chemical properties: see section 9
  - Limited quantities: 1 L
- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:** Not relevant

**Transport of dangerous goods by sea:**

With regard to IMDG 41-22:



- 14.1 UN number:** UN1760
- 14.2 UN proper shipping name:** CORROSIVE LIQUID, N.O.S. (sodium hydroxide)
- 14.3 Transport hazard class(es):** 8
- Labels:** 8
- 14.4 Packing group:** II
- 14.5 Marine pollutant:** No
- 14.6 Special precautions for user**
  - Special regulations: 274
  - EmS Codes: F-A, S-B
  - Physico-Chemical properties: see section 9
  - Limited quantities: 1 L
  - Segregation group: SGG18
- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:** Not relevant

**Transport of dangerous goods by air:**

With regard to IATA/ICAO 2024:

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**SECTION 14: TRANSPORT INFORMATION (continued)**



|   |   |
|---|---|
| <b>14.1 UN number:</b>  | UN1760                                      |
| <b>14.2 UN proper shipping name:</b>  | CORROSIVE LIQUID, N.O.S. (sodium hydroxide) |
| <b>14.3 Transport hazard class(es):</b>   | 8   |
| Labels:   | 8   |
| <b>14.4 Packing group:</b>  | II  |
| <b>14.5 Environmental hazards:</b>  | No  |
| <b>14.6 Special precautions for user</b>  |   |
| Physico-Chemical properties:  | see section 9                               |
| <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:</b> | Not relevant                                |

**SECTION 15: REGULATORY INFORMATION**

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:**

- Substances listed in UK candidate list of substances of very high concern (SVHCs): Not relevant
- Substances listed in UK REACH Authorisation List (Annex 14): Not relevant

**The Detergents (Amendment) (EU Exit) Regulations:**

In accordance with this regulation the product complies with the following:

The tensoactives contained in this mixture comply with the biodegradability criteria stipulated in The Detergents (Amendment) (EU Exit) Regulations. The information to prove this is available to the relevant authorities of the Member States and will be shown to them by direct request or the request of a detergent manufacturer.

Labelling for contents:

| Component              | Concentration interval |
|------------------------|------------------------|
| Cationic surfactants   | % (w/w) < 5            |
| EDTA and salts thereof | % (w/w) < 5            |
| Phosphonates           | % (w/w) < 5            |

**Restrictions to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII UK REACH, etc ....):**

Shall not be used in:

- ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
- tricks and jokes,
- games for one or more participants, or any article intended to be used as such, even with ornamental aspects.

**Specific provisions in terms of protecting people or the environment:**

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

**Other legislation:**

- The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.
- The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2020.
- Control of Substances Hazardous to Health Regulations 2002 (as amended)
- EH40/2005 Workplace exposure limits.
- COSHH-SR24 Storing chemical products (small scale).
- COSHH-SR2 Diluting chemical concentrates.
- COSHH-SR4 Manual cleaning and disinfecting surfaces.
- The Product Safety and Metrology etc. (Amendment etc.) (EU Exit) Regulations 2019: SCHEDULE 34 - Amendment of Regulation (EC) No 1223/2009 and related amendments.
- The Detergents (Amendment) (EU Exit) Regulations 2020.

**SECTION 16: OTHER INFORMATION**

**Legislation related to safety data sheets:**

This safety data sheet has been designed in accordance with ANNEX II-The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.

**Texts of the legislative phrases mentioned in section 2:**

- H290: May be corrosive to metals.
- H318: Causes serious eye damage.
- H314: Causes severe skin burns and eye damage.
- H412: Harmful to aquatic life with long lasting effects.

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**SECTION 16: OTHER INFORMATION (continued)****Texts of the legislative phrases mentioned in section 3:**

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

**GB CLP Regulation (UK S.I. 2019/720 and UK S.I. 2020/1567):**

Acute Tox. 3: H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled.

Acute Tox. 3: H311 - Toxic in contact with skin.

Acute Tox. 4: H302 - Harmful if swallowed.

Aquatic Acute 1: H400 - Very toxic to aquatic life.

Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects.

Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.

Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.

Eye Dam. 1: H318 - Causes serious eye damage.

Eye Irrit. 2: H319 - Causes serious eye irritation.

Flam. Liq. 2: H225 - Highly flammable liquid and vapour.

Met. Corr. 1: H290 - May be corrosive to metals.

Skin Corr. 1A: H314 - Causes severe skin burns and eye damage.

Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.

STOT SE 1: H370 - Causes damage to organs.

**Classification procedure:**

Eye Dam. 1: Calculation method

Skin Corr. 1: Calculation method

Aquatic Chronic 3: Calculation method

**Advice related to training:**

Training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

**Principal bibliographical sources:**

<http://echa.europa.eu>

<http://eur-lex.europa.eu>

**Abbreviations and acronyms:**

ADR: European agreement concerning the international carriage of dangerous goods by road

IMDG: International maritime dangerous goods code

IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation

COD: Chemical Oxygen Demand

BOD5: 5day biochemical oxygen demand

BCF: Bioconcentration factor

LD50: Lethal Dose 50

LC50: Lethal Concentration 50

EC50: Effective concentration 50

LogPOW: Octanolwater partition coefficient

Koc: Partition coefficient of organic carbon

UFI: unique formula identifier

IARC: International Agency for Research on Cancer

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at UK, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

- END OF SAFETY DATA SHEET -