

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : Auto Machine Dish Wash  
Product code : SJ015

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

##### Relevant identified uses

Main use category : Consumer use, Industrial use, Professional use

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

Valet-Chem Ltd  
Summit Close  
NG17 8GJ Kirkby In Ashfield Nottingham, Nottinghamshire  
United Kingdom  
T +44 (0) 844 414 0987  
[info@valetchem.co.uk](mailto:info@valetchem.co.uk)

#### 1.4. Emergency telephone number

Emergency number : +44 (0) 844 414 0987

| Country/Area   | Organisation/Company  | Address   | Emergency number | Comment                           |
|----------------|---|---|------------------|-----------------------------------|
| United Kingdom | National Poisons Information Service (Birmingham Centre)<br>City Hospital                         | Dudley Road<br>B18 7QH                                    | 0344 892 0111    | Only for healthcare professionals |
| United Kingdom | National Poisons Information Service (Cardiff Centre)<br>University Hospital Llandough            | Penlan Road<br>CF64 2XX                                   | 0344 892 0111    | Only for healthcare professionals |
| United Kingdom | National Poisons Information Service (Edinburgh Centre)<br>Royal Infirmary of Edinburgh           | Little France Crescent<br>EH16 4SA                        | 0344 892 0111    | Only for healthcare professionals |
| United Kingdom | Guy's & St Thomas' Poisons Unit<br>Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust     | Avonley Road<br>SE14 5ER                                  | +44 20 7188 7188 |                                   |
| United Kingdom | National Poisons Information Service (Newcastle Centre)<br>Regional Drugs and Therapeutics Centre | 16/17 Framlington Place<br>Newcastle-upon-Tyne<br>NE2 4AB | 0344 892 0111    | Only for healthcare professionals |
| United Kingdom | National Poisons Information Service (Belfast Centre)<br>Royal Victoria Hospital                  | Grosvenor Road<br>BT12 6BA                                | 0344 892 0111    | Only for healthcare professionals |
| United Kingdom | NHS 111/NHS 24/NHS Direct   |   | 111<br>0845 4647 | or call a doctor                  |

### SECTION 2: Hazards identification

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

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

Skin corrosion/irritation, Category 1, Sub-Category 1A H314  
Serious eye damage/eye irritation, Category 1 H318  
Full text of H- and EUH-statements: see section 16

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### Adverse physicochemical, human health and environmental effects

Causes severe skin burns and eye damage. Causes serious eye damage.

### 2.2. Label elements

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

Hazard pictograms (CLP)



GHS05

Signal word (CLP)

: Danger

Contains

: SODIUM HYDROXIDE; TETRASODIUM ETHYLENE DIAMINE TETRAACETATE

Hazard statements (CLP)

: H314 - Causes severe skin burns and eye damage.

Precautionary statements (CLP)

: P260 - Do not breathe dust/fume/gas/mist/vapours/spray.

P264 - Wash hands, forearms and face thoroughly after handling.

P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water .

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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 instruction on this label).

P405 - Store locked up.

P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

### 2.3. Other hazards

Contains no PBT/vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

| Name                                      | Product identifier  | %     | Classification according to Regulation (EC) No. 1272/2008 [CLP]          |
|---|---|-------|--|
| SODIUM HYDROXIDE                          | CAS-No.: 1310-73-2<br>EC-No.: 215-185-5<br>EC Index-No.: 011-002-00-6                             | 10-15 | Met. Corr. 1, H290<br>Skin Corr. 1A, H314<br>Eye Dam. 1, H318            |
| TETRASODIUM ETHYLENE DIAMINE TETRAACETATE | CAS-No.: 64-02-8<br>EC-No.: 200-573-9<br>EC Index-No.: 607-428-00-2<br>REACH-no: 01-2119486762-27 | <5    | Acute Tox. 4 (Oral), H302<br>Eye Dam. 1, H318<br>Aquatic Chronic 3, H412 |

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### Specific concentration limits:

| Name             | Product identifier  | Specific concentration limits (%)   |
|------------------|---|---|
| SODIUM HYDROXIDE | CAS-No.: 1310-73-2<br>EC-No.: 215-185-5<br>EC Index-No.: 011-002-00-6 | (0.5 ≤ C < 2) Skin Irrit. 2; H315<br>(0.5 ≤ C < 2) Eye Irrit. 2; H319<br>(2 ≤ C < 5) Skin Corr. 1B; H314<br>(5 ≤ C < 100) Skin Corr. 1A; H314 |

Full text of H- and EUH-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|                                       |  |
|---------------------------------------|--|
| First-aid measures general            | : Call a physician immediately.  |
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing.   |
| First-aid measures after skin contact | : Rinse skin with water/shower. Take off immediately all contaminated clothing. Call a physician immediately.  |
| First-aid measures after eye contact  | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately. |
| First-aid measures after ingestion    | : Rinse mouth. Do not induce vomiting. Call a physician immediately.   |
| First-aid measures for first aider    | : First aid workers will be equipped with suitable personal protective equipment.  |

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

|                                     |   |
|-------------------------------------|---|
| Symptoms/effects after inhalation   | : Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard. |
| Symptoms/effects after skin contact | : Burns.  |
| Symptoms/effects after eye contact  | : Serious damage to eyes.   |
| Symptoms/effects after ingestion    | : Burns.  |

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

|                                |  |
|--------------------------------|--|
| Suitable extinguishing media   | : Water spray. Dry powder. Foam. Carbon dioxide. |
| Unsuitable extinguishing media | : Do not use a heavy water stream.               |

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

|  |                                |
|--|--------------------------------|
| Fire hazard                                      | : No fire hazard.              |
| Explosion hazard                                 | : No direct explosion hazard.  |
| Hazardous decomposition products in case of fire | : Toxic fumes may be released. |

### 5.3. Advice for firefighters

|                                |   |
|--------------------------------|---|
| Firefighting instructions      | : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection. |
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.              |

## SECTION 6: Accidental release measures

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

|                  |   |
|------------------|---|
| General measures | : Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage. |
|------------------|---|

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### For non-emergency personnel

- Protective equipment : Wear recommended personal protective equipment.  
Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray.

### For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".  
Emergency procedures : Evacuate unnecessary personnel. Stop leak if safe to do so.

## 6.2. Environmental precautions

Avoid release to the environment.

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

- For containment : Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible.  
Methods for cleaning up : Take up liquid spill into absorbent material.  
Other information : Dispose of materials or solid residues at an authorized site.

## 6.4. Reference to other sections

For further information refer to section 13.

# SECTION 7: Handling and storage

## 7.1. Precautions for safe handling

- Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use.  
Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray. Wear personal protective equipment.  
Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

- Technical measures : Keep in a cool, well-ventilated place away from heat.  
Storage conditions : Store locked up.  
Packaging materials : Store always product in container of same material as original container.

### Switzerland

- Storage class (LK) : LK 8 - Corrosive materials

## 7.3. Specific end use(s)

No additional information available

# SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

### National occupational exposure and biological limit values

| SODIUM HYDROXIDE (1310-73-2)           |  |
|--|--|
| Austria - Occupational Exposure Limits |  |
| Local name                             | Natriumhydroxid (Ätznatron)            |
| MAK (OEL TWA)                          | 2 mg/m <sup>3</sup> (E)                |
| MAK (OEL STEL)                         | 4 mg/m <sup>3</sup> (E, 8x 5(Mow) min) |
| Regulatory reference                   | BGBI. II Nr. 156/2021                  |

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| <b>SODIUM HYDROXIDE (1310-73-2)</b>                  |  |
|--|--|
| <b>Belgium - Occupational Exposure Limits</b>        |  |
| Local name   | Sodium (hydroxyde de) # Natriumhydroxide   |
| OEL TWA  | 2 mg/m <sup>3</sup>  |
| Remark   | M: la mention "M" indique que lors d'une exposition supérieure à la valeur limite, des irritations apparaissent ou un danger d'intoxication aiguë existe. Le procédé de travail doit être conçu de telle façon que l'exposition ne dépasse jamais la valeur limite. Lors des mesurages, la période d'échantillonnage doit être aussi courte que possible afin de pouvoir effectuer des mesurages fiables. Le résultat des mesurages est calculé en fonction de la période d'échantillonnage. # M: de vermelding "M" duidt aan dat bij de blootstelling boven de grenswaarde irritatie optreedt of er gevaar bestaat voor acute vergiftiging. Het werkproces moet zo zijn ontworpen dat de blootstelling de grenswaarde nooit overschrijdt. Bij een controle geldt dat de bemonsterde periode zo kort mogelijk moet zijn om een betrouwbare meting te kunnen verrichten. Het meetresultaat wordt dan gerelateerd aan de beschouwde periode. |
| Regulatory reference                                 | Koninklijk besluit/Arrêté royal 19/11/2020   |
| <b>Bulgaria - Occupational Exposure Limits</b>       |  |
| Local name   | Натриева основа  |
| OEL TWA  | 2 mg/m <sup>3</sup> (алкални аерозоли)   |
| Remark   | • (Химични агенти, за които са определени гранични стойности във въздуха на работната среда за Европейската общност)   |
| Regulatory reference                                 | Наредба № 13 от 30.12.2003 г. за защита на работещите от рискове, свързани с експозиция на химични агенти при работа (изм. и доп. ДВ. бр. 47 от 2021 г., в сила от 04.06.2021 г.)  |
| <b>Croatia - Occupational Exposure Limits</b>        |  |
| Local name   | Natrijev hidroksid; kaustična soda   |
| KGVI (OEL STEL)                                      | 2 mg/m <sup>3</sup>  |
| Regulatory reference                                 | Pravilnik o izmjenama i dopunama Pravilnika o graničnim vrijednostima izloženosti opasnim tvarima pri radu i o biološkim graničnim vrijednostima (NN 1/2021)   |
| <b>Czech Republic - Occupational Exposure Limits</b> |  |
| Local name   | Hydroxid sodný   |
| PEL (OEL TWA)  | 1 mg/m <sup>3</sup>  |
| NPK-P (OEL C)  | 2 mg/m <sup>3</sup>  |
| Remark   | I - dráždí sliznice (oči, dýchací cesty), respektive kůže.   |
| Regulatory reference                                 | Nařízení vlády č. 361/2007 Sb. (Předpis 195/2021 Sb.)  |
| <b>Denmark - Occupational Exposure Limits</b>        |  |
| Local name   | Natriumhydroxid  |
| OEL C  | 2 mg/m <sup>3</sup>  |
| Regulatory reference                                 | BEK nr 1426 af 28. juni 2021   |
| <b>Estonia - Occupational Exposure Limits</b>        |  |
| Local name   | Naatriumhüdoksiid  |
| OEL TWA  | 1 mg/m <sup>3</sup>  |
| OEL STEL   | 2 mg/m <sup>3</sup> arvutatud 5-minutisele kokkupuuteajale   |
| Regulatory reference                                 | Vabariigi Valitsuse 20. märtsi 2001. a määruse nr 105 (RT I, 17.10.2019, 2); Vabariigi Valitsuse 10. märtsi 2019. a määruse nr 84  |

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| <b>SODIUM HYDROXIDE (1310-73-2)</b>             |  |
|---|--|
| <b>Finland - Occupational Exposure Limits</b>   |  |
| Local name                                      | Natriumhydroksidi  |
| HTP (OEL C)                                     | 2 mg/m <sup>3</sup>  |
| Regulatory reference                            | HTP-ARVOT 2020 (Sosiaali- ja terveysministeriö)  |
| <b>France - Occupational Exposure Limits</b>    |  |
| Local name                                      | Sodium (hydroxyde de)  |
| VME (OEL TWA)                                   | 2 mg/m <sup>3</sup>  |
| Remark  | Valeurs recommandées/admises   |
| Regulatory reference                            | Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)   |
| <b>Greece - Occupational Exposure Limits</b>    |  |
| Local name                                      | Υδροξειδιο του νατρίου   |
| OEL TWA   | 2 mg/m <sup>3</sup>  |
| OEL STEL  | 2 mg/m <sup>3</sup>  |
| Regulatory reference                            | Π.Δ. 90/1999 - Προστασία της υγείας των εργαζομένων που εκτίθενται σε ορισμένους χημικούς παράγοντες κατά τη διάρκεια της εργασίας τους  |
| <b>Hungary - Occupational Exposure Limits</b>   |  |
| Local name                                      | NÁTRIUM-HIDROXID   |
| AK (OEL TWA)                                    | 1 mg/m <sup>3</sup>  |
| CK (OEL STEL)                                   | 2 mg/m <sup>3</sup>  |
| Remark  | m (maró hatású anyag, amely felmarja a bőrt, nyálkahártyát, szemet vagy mindhármát); N (Irritáló anyagok, egyszerű fojtógázok, csekély egészségkárosító hatással bíró anyagok) |
| Regulatory reference                            | 5/2020. (II. 6.) ITM rendelet - A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről   |
| <b>Ireland - Occupational Exposure Limits</b>   |  |
| Local name                                      | Sodium hydroxide   |
| OEL STEL  | 2 mg/m <sup>3</sup>  |
| Regulatory reference                            | Chemical Agents Code of Practice 2021  |
| <b>Latvia - Occupational Exposure Limits</b>    |  |
| Local name                                      | Nātrija hidroksīds (nātrija sārms, kaustiskā soda)   |
| OEL TWA   | 0.5 mg/m <sup>3</sup>  |
| Regulatory reference                            | Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2011. gada 1. februārī noteikumiem Nr. 92)   |
| <b>Lithuania - Occupational Exposure Limits</b> |  |
| Local name                                      | Natrio hidroksidas   |
| NRV (OEL C)                                     | 2 mg/m <sup>3</sup>  |
| Remark  | Ū (ūmus poveikis)  |
| Regulatory reference                            | LIETUVOS HIGIENOS NORMA HN 23:2011 (Nr. V-695/A1-272, 2018-06-12)  |
| <b>Poland - Occupational Exposure Limits</b>    |  |
| Local name                                      | Wodorotlenek sodu  |
| NDS (OEL TWA)                                   | 0.5 mg/m <sup>3</sup>  |

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| <b>SODIUM HYDROXIDE (1310-73-2)</b>                   |   |
|---|---|
| NDSCh (OEL STEL)                                      | 1 mg/m <sup>3</sup>   |
| Regulatory reference                                  | Dz. U. 2018 poz. 1286   |
| <b>Portugal - Occupational Exposure Limits</b>        |   |
| Local name  | Hidróxido de sódio  |
| OEL C   | 2 ppm   |
| Regulatory reference                                  | Norma Portuguesa NP 1796:2014   |
| <b>Slovakia - Occupational Exposure Limits</b>        |   |
| Local name  | Hydroxid sodný  |
| NPHV (OEL TWA)  | 2 mg/m <sup>3</sup>   |
| Regulatory reference                                  | Nariadenie vlády č. 355/2006 Z. z. (236/2020 Z. z.)   |
| <b>Spain - Occupational Exposure Limits</b>           |   |
| Local name  | Hidróxido de sodio  |
| VLA-EC (OEL STEL)                                     | 2 mg/m <sup>3</sup>   |
| Regulatory reference                                  | Límites de Exposición Profesional para Agentes Químicos en España 2021. INSHT   |
| <b>Sweden - Occupational Exposure Limits</b>          |   |
| Local name  | Natriumhydroxid   |
| NGV (OEL TWA)   | 1 mg/m <sup>3</sup> inhalerbar fraktion   |
| KTV (OEL STEL)  | 2 mg/m <sup>3</sup> inhalerbar fraktion   |
| Remark  | 3 (Med inhalerbar fraktion menas den mängd partiklar, av totalmängden partiklar i luften, som man inandas genom näsa och mun) |
| Regulatory reference                                  | Hygieniska gränsvärden (AFS 2018:1)   |
| <b>United Kingdom - Occupational Exposure Limits</b>  |   |
| Local name  | Sodium hydroxide  |
| WEL STEL (OEL STEL)                                   | 2 mg/m <sup>3</sup>   |
| Regulatory reference                                  | EH40/2005 (Fourth edition, 2020). HSE   |
| <b>Iceland - Occupational Exposure Limits</b>         |   |
| Local name  | Natriumhýdroxíð (vítissóti)   |
| OEL STEL  | 2 mg/m <sup>3</sup>   |
| Regulatory reference                                  | Reglugerð um mengunarmörk og aðgerðir til að draga úr mengun á vinnustöðum (Nr. 390/2009)                                     |
| <b>Norway - Occupational Exposure Limits</b>          |   |
| Local name  | Natriumhydroksid  |
| Takverdi (OEL C)                                      | 2 mg/m <sup>3</sup>   |
| Regulatory reference                                  | FOR-2021-06-28-2248   |
| <b>North Macedonia - Occupational Exposure Limits</b> |   |
| Local name  | Натриум хидроксид   |
| OEL TWA   | 2 mg/m <sup>3</sup> (l) инхалабилна фракција – дел на вкупно суспендирани материји, кои работникот ги вдишува                 |
| KTV   | 1   |
| Short time value [mg/m <sup>3</sup> ]                 | 2 mg/m <sup>3</sup>   |

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| SODIUM HYDROXIDE (1310-73-2)               |  |
|--|--|
| Remark                                     | (KTV) краткотрајна вредност (КТВ) значи концентрација на опасни хемиски супстанции во воздухот на работното место внатре во зона на дишење, на која работникот без опасност по здравјето може да е изложен на покусо време. Изложеноста на краткотрајни вредности може да трае највеќе 15 минути и не смее да се повтори повеќе од четирипати во работната смена, при што меѓу две изложености на оваа концентрација мора да измине најмалку 60 минути. Краткотрајната вредност е изразена во mg/m <sup>3</sup> или во ml/m <sup>3</sup> (ppm) а е дадена како многукратни дозволени пречекорувања на граничната вредност; (Y) |
| Regulatory reference                       | Правилник за минималните барања за безбедност и здравје при работа на вработени од ризици поврзани со изложување на хемиски супстанции („Службен весник на Република Македонија“ бр.46/10)   |
| Switzerland - Occupational Exposure Limits |  |
| Local name                                 | Soude caustique / Natriumhydroxid [Aetznatron]   |
| MAK (OEL TWA)                              | 2 mg/m <sup>3</sup> (i) / (e)  |
| KZGW (OEL STEL)                            | 2 mg/m <sup>3</sup> (i) / (e)  |
| Critical toxicity                          | VRS, Peau, Yeux / OAW, Haut, Auge  |
| Notation                                   | SS <sub>c</sub> / SS <sub>c</sub>  |
| Remark                                     | NIOSH, OSHA  |
| Regulatory reference                       | www.suva.ch, 01.01.2021  |

## 8.2. Exposure controls

### Appropriate engineering controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

### Personal protection equipment

#### Personal protective equipment:

Wear recommended personal protective equipment.

#### Personal protective equipment symbol(s):



### Eye and face protection

#### Eye protection:

Safety glasses

### Skin protection

#### Skin and body protection:

Wear suitable protective clothing

### Hand protection:

Protective gloves

### Respiratory protection

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

### Environmental exposure controls

#### Environmental exposure controls:

Avoid release to the environment.



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### SECTION 9: Physical and chemical properties

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

|   |                  |
|---|------------------|
| Physical state                                  | : Liquid         |
| Colour  | : Not available  |
| Odour   | : Not available  |
| Odour threshold                                 | : Not available  |
| Melting point                                   | : Not applicable |
| Freezing point                                  | : Not available  |
| Boiling point                                   | : Not available  |
| Flammability                                    | : Not available  |
| Lower explosion limit                           | : Not available  |
| Upper explosion limit                           | : Not available  |
| Flash point                                     | : Not available  |
| Auto-ignition temperature                       | : Not available  |
| Decomposition temperature                       | : Not available  |
| pH  | : Not available  |
| Viscosity, kinematic                            | : Not available  |
| Solubility                                      | : Not available  |
| Partition coefficient n-octanol/water (Log Kow) | : Not available  |
| Vapour pressure                                 | : Not available  |
| Vapour pressure at 50 °C                        | : Not available  |
| Density   | : Not available  |
| Relative density                                | : Not available  |
| Relative vapour density at 20 °C                | : Not available  |
| Particle characteristics                        | : Not applicable |

#### 9.2. Other information

No additional information available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

#### 10.5. Incompatible materials

No additional information available

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### SECTION 11: Toxicological information

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

|                             |                  |
|-----------------------------|------------------|
| Acute toxicity (oral)       | : Not classified |
| Acute toxicity (dermal)     | : Not classified |
| Acute toxicity (inhalation) | : Not classified |

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|                                   |                              |
|-----------------------------------|------------------------------|
| Skin corrosion/irritation         | : Causes severe skin burns.  |
| Serious eye damage/irritation     | : Causes serious eye damage. |
| Respiratory or skin sensitisation | : Not classified             |
| Germ cell mutagenicity            | : Not classified             |
| Carcinogenicity                   | : Not classified             |
| Reproductive toxicity             | : Not classified             |
| STOT-single exposure              | : Not classified             |
| STOT-repeated exposure            | : Not classified             |

### TETRASODIUM ETHYLENE DIAMINE TETRAACETATE (64-02-8)

|   |  |
|---|--|
| LOAEC (inhalation, rat,dust/mist/fume, 90 days) | 0.015 mg/l air Animal: rat, Animal sex: female, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study) |
|---|--|

|                            |                                    |
|----------------------------|------------------------------------|
| NOAEL (oral, rat, 90 days) | ≥ 500 mg/kg bodyweight Animal: rat |
|----------------------------|------------------------------------|

Aspiration hazard : Not classified

### 11.2. Information on other hazards

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

|   |   |
|---|---|
| Ecology - general   | : Before neutralisation, the product may represent a danger to aquatic organisms. |
| Hazardous to the aquatic environment, short-term (acute)  | : Not classified  |
| Hazardous to the aquatic environment, long-term (chronic) | : Not classified  |

### SODIUM HYDROXIDE (1310-73-2)

|                      |  |
|----------------------|--|
| EC50 - Crustacea [1] | 40.4 mg/l Test organisms (species): Ceriodaphnia sp. |
|----------------------|--|

### TETRASODIUM ETHYLENE DIAMINE TETRAACETATE (64-02-8)

|                      |  |
|----------------------|--|
| EC50 - Crustacea [1] | 140 mg/l Test organisms (species): Daphnia magna |
|----------------------|--|

|                      |   |
|----------------------|---|
| EC50 72h - Algae [1] | > 60 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |
|----------------------|---|

|                |  |
|----------------|--|
| LOEC (chronic) | 50 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |
|----------------|--|

|                |  |
|----------------|--|
| NOEC (chronic) | 25 mg/l Test organisms (species): Daphnia magna Duration: '21 d' |
|----------------|--|

|                   |   |
|-------------------|---|
| NOEC chronic fish | ≥ 25.7 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) Duration: '35 d' |
|-------------------|---|

### 12.2. Persistence and degradability

#### Auto Machine Dish Wash

|                               |                        |
|-------------------------------|------------------------|
| Persistence and degradability | Not rapidly degradable |
|-------------------------------|------------------------|

#### SODIUM HYDROXIDE (1310-73-2)

|                               |                        |
|-------------------------------|------------------------|
| Persistence and degradability | Not rapidly degradable |
|-------------------------------|------------------------|

#### TETRASODIUM ETHYLENE DIAMINE TETRAACETATE (64-02-8)

|                               |                        |
|-------------------------------|------------------------|
| Persistence and degradability | Not rapidly degradable |
|-------------------------------|------------------------|

### 12.3. Bioaccumulative potential

No additional information available

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### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Endocrine disrupting properties

No additional information available

### 12.7. Other adverse effects

No additional information available





## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

|  |   |
|--|---|
| Regional legislation (waste)               | : Disposal must be done according to official regulations.                                    |
| Waste treatment methods                    | : Dispose of contents/container in accordance with licensed collector's sorting instructions. |
| Sewage disposal recommendations            | : Disposal must be done according to official regulations.                                    |
| Product/Packaging disposal recommendations | : Disposal must be done according to official regulations.                                    |
| Additional information                     | : Do not re-use empty containers.   |

## SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

| ADR   | IMDG  | IATA          | ADN   | RID   |
|---|---|---------------|---|---|
| <b>14.1. UN number or ID number</b>   |   |               |   |   |
| UN 1823   | UN 1823   | Not regulated | UN 1823   | UN 1823   |
| <b>14.2. UN proper shipping name</b>  |   |               |   |   |
| SODIUM HYDROXIDE, SOLID   | SODIUM HYDROXIDE, SOLID   | Not regulated | SODIUM HYDROXIDE, SOLID   | SODIUM HYDROXIDE, SOLID   |
| <b>Transport document description</b>   |   |               |   |   |
| UN 1823 SODIUM HYDROXIDE, SOLID, 8, II, (E)   | UN 1823 SODIUM HYDROXIDE, SOLID, 8, II  | Not regulated | UN 1823 SODIUM HYDROXIDE, SOLID, 8, II  | UN 1823 SODIUM HYDROXIDE, SOLID, 8, II  |
| <b>14.3. Transport hazard class(es)</b>   |   |               |   |   |
| 8   | 8   | Not regulated | 8   | 8   |
|  |                          | Not regulated |  |  |
| <b>14.4. Packing group</b>  |   |               |   |   |
| II  | II  | Not regulated | II  | II  |
| <b>14.5. Environmental hazards</b>  |   |               |   |   |
| Dangerous for the environment: No   | Dangerous for the environment: No<br>Marine pollutant: No<br>EmS-No. (Fire): F-A<br>EmS-No. (Spillage): S-B | Not regulated | Dangerous for the environment: No   | Dangerous for the environment: No   |

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| ADR                                    | IMDG | IATA | ADN | RID |
|--|------|------|-----|-----|
| No supplementary information available |      |      |     |     |

### 14.6. Special precautions for user

#### Overland transport

|   |               |
|---|---------------|
| Classification code (ADR)                                 | : C6          |
| Limited quantities (ADR)                                  | : 1kg         |
| Excepted quantities (ADR)                                 | : E2          |
| Packing instructions (ADR)                                | : P002, IBC08 |
| Special packing provisions (ADR)                          | : B4          |
| Mixed packing provisions (ADR)                            | : MP10        |
| Portable tank and bulk container instructions (ADR)       | : T3          |
| Portable tank and bulk container special provisions (ADR) | : TP33        |
| Tank code (ADR)   | : SGAN        |
| Vehicle for tank carriage                                 | : AT          |
| Transport category (ADR)                                  | : 2           |
| Special provisions for carriage - Packages (ADR)          | : V11         |
| Hazard identification number (Kemler No.)                 | : 80          |
| Orange plates   | :             |



|                               |      |
|-------------------------------|------|
| Tunnel restriction code (ADR) | : E  |
| EAC code                      | : 2W |

#### Transport by sea

|                                    |  |
|------------------------------------|--|
| Limited quantities (IMDG)          | : 1 kg   |
| Excepted quantities (IMDG)         | : E2   |
| Packing instructions (IMDG)        | : P002   |
| IBC packing instructions (IMDG)    | : IBC08  |
| IBC special provisions (IMDG)      | : B21, B4  |
| Tank instructions (IMDG)           | : T3   |
| Tank special provisions (IMDG)     | : TP33   |
| Stowage category (IMDG)            | : A  |
| Segregation (IMDG)                 | : SGG18, SG35  |
| Properties and observations (IMDG) | : White pellets, flakes, lumps or solid blocks, deliquescent. Reacts with ammonium salts, evolving ammonia gas. In the presence of moisture, corrosive to aluminium, zinc and tin. Causes burns to skin, eyes and mucous membranes. Reacts violently with acids. |

#### Air transport

Not regulated

#### Inland waterway transport

|                                   |          |
|-----------------------------------|----------|
| Classification code (ADN)         | : C6     |
| Limited quantities (ADN)          | : 1 kg   |
| Excepted quantities (ADN)         | : E2     |
| Carriage permitted (ADN)          | : T      |
| Equipment required (ADN)          | : PP, EP |
| Number of blue cones/lights (ADN) | : 0      |

#### Rail transport

|   |               |
|---|---------------|
| Classification code (RID)                                 | : C6          |
| Limited quantities (RID)                                  | : 1kg         |
| Excepted quantities (RID)                                 | : E2          |
| Packing instructions (RID)                                | : P002, IBC08 |
| Special packing provisions (RID)                          | : B4          |
| Mixed packing provisions (RID)                            | : MP10        |
| Portable tank and bulk container instructions (RID)       | : T3          |
| Portable tank and bulk container special provisions (RID) | : TP33        |

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|  |        |
|--|--------|
| Tank codes for RID tanks (RID)                   | : SGAN |
| Transport category (RID)                         | : 2    |
| Special provisions for carriage – Packages (RID) | : W11  |
| Colis express (express parcels) (RID)            | : CE10 |
| Hazard identification number (RID)               | : 80   |

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

Not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU-Regulations

##### REACH Annex XVII (Restriction List)

Contains no REACH substances with Annex XVII restrictions

##### REACH Annex XIV (Authorisation List)

Contains no REACH Annex XIV substances

##### REACH Candidate List (SVHC)

Contains no substance on the REACH candidate list

##### PIC Regulation (Prior Informed Consent)

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

##### POP Regulation (Persistent Organic Pollutants)

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

##### Ozone Regulation (1005/2009)

Contains no substance subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

##### Dual-Use Regulation (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

##### Explosives Precursors Regulation (2019/1148)

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

##### Drug Precursors Regulation (273/2004)

Contains no substance subject to Regulation (EC) 273/2004 of the European Parliament and of the Council of 11 February 2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances.

#### National regulations

##### Germany

|  |   |
|--|---|
| Employment restrictions                    | : Observe restrictions according Act on the Protection of Working Mothers (MuSchG).<br>Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG). |
| Water hazard class (WGK)                   | : WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1).   |
| Hazardous Incident Ordinance (12. BImSchV) | : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)  |

##### Netherlands

|   |                                     |
|---|-------------------------------------|
| SZW-lijst van kankerverwekkende stoffen                 | : None of the components are listed |
| SZW-lijst van mutagene stoffen                          | : None of the components are listed |
| SZW-lijst van reprotoxische stoffen – Borstvoeding      | : None of the components are listed |
| SZW-lijst van reprotoxische stoffen –<br>Vruchtbaarheid | : None of the components are listed |
| SZW-lijst van reprotoxische stoffen – Ontwikkeling      | : None of the components are listed |

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### Denmark

Danish National Regulations : Young people below the age of 18 years are not allowed to use the product

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

| Abbreviations and acronyms: |   |
|-----------------------------|---|
| ADN                         | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR                         | European Agreement concerning the International Carriage of Dangerous Goods by Road             |
| ATE                         | Acute Toxicity Estimate   |
| BCF                         | Bioconcentration factor   |
| BLV                         | Biological limit value  |
| BOD                         | Biochemical oxygen demand (BOD)   |
| COD                         | Chemical oxygen demand (COD)  |
| DMEL                        | Derived Minimal Effect level  |
| DNEL                        | Derived-No Effect Level   |
| EC-No.                      | European Community number   |
| EC50                        | Median effective concentration  |
| EN                          | European Standard   |
| IARC                        | International Agency for Research on Cancer   |
| IATA                        | International Air Transport Association   |
| IMDG                        | International Maritime Dangerous Goods  |
| LC50                        | Median lethal concentration   |
| LD50                        | Median lethal dose  |
| LOAEL                       | Lowest Observed Adverse Effect Level  |
| NOAEC                       | No-Observed Adverse Effect Concentration  |
| NOAEL                       | No-Observed Adverse Effect Level  |
| NOEC                        | No-Observed Effect Concentration  |
| OECD                        | Organisation for Economic Co-operation and Development  |
| OEL                         | Occupational Exposure Limit   |
| PBT                         | Persistent Bioaccumulative Toxic  |
| PNEC                        | Predicted No-Effect Concentration   |
| RID                         | Regulations concerning the International Carriage of Dangerous Goods by Rail                    |
| SDS                         | Safety Data Sheet   |
| STP                         | Sewage treatment plant  |
| ThOD                        | Theoretical oxygen demand (ThOD)  |
| TLM                         | Median Tolerance Limit  |
| VOC                         | Volatile Organic Compounds  |
| CAS-No.                     | Chemical Abstract Service number  |

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### Abbreviations and acronyms:

|        |  |
|--------|--|
| N.O.S. | Not Otherwise Specified                  |
| vPvB   | Very Persistent and Very Bioaccumulative |
| ED     | Endocrine disruptor                      |

### Full text of H- and EUH-statements:

|                     |   |
|---------------------|---|
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4                                 |
| Aquatic Chronic 3   | Hazardous to the aquatic environment — Chronic Hazard, Category 3 |
| Eye Dam. 1          | Serious eye damage/eye irritation, Category 1                     |
| Eye Irrit. 2        | Serious eye damage/eye irritation, Category 2                     |
| 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.                                    |
| H412                | Harmful to aquatic life with long lasting effects.                |
| Met. Corr. 1        | Corrosive to metals, Category 1                                   |
| Skin Corr. 1A       | Skin corrosion/irritation, Category 1, Sub-Category 1A            |
| Skin Corr. 1B       | Skin corrosion/irritation, Category 1, Sub-Category 1B            |
| Skin Irrit. 2       | Skin corrosion/irritation, Category 2                             |

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.