|  |
| --- |
| **SECTION 1: Identification of the substance/mixture and of the company/ undertaking** |

|  |
| --- |
|  |

|  |  |
| --- | --- |
| **1.1** | **Product identifier** |

|  |  |  |  |
| --- | --- | --- | --- |
|  | |  |  | | --- | --- | |  | Powerwash | |

|  |  |
| --- | --- |
| **1.2** | **Relevant identified uses of the substance or mixture and uses advised against** |

|  |  |
| --- | --- |
|  | **Relevant identified uses** |

|  |  |
| --- | --- |
|  | **Environmental release categories [ERC]** |

|  |  |
| --- | --- |
|  | ERC 8a - Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) |

|  |  |
| --- | --- |
|  | **Uses advised against** |

|  |  |
| --- | --- |
|  | This product should not be used for purposes other than the applications referred to above. |

|  |  |
| --- | --- |
| **1.3** | **Details of the supplier of the safety data sheet** |

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Supplier (manufacturer/importer/distributor)**   |  |  | | --- | --- | |  | Macoproducts bv | |

|  |  |
| --- | --- |
|  | **Street :** Marsweg 40a |
|  | **Postal code/city :** 8013PD   Zwolle, Nederland |
|  | **Telephone :** +31(0)38 – 741 00 08 |
|  | **Information contact :** info@macoproducts.nl |

|  |  |
| --- | --- |
| **1.4** | **Emergency telephone number** |

|  |  |  |  |
| --- | --- | --- | --- |
|  | |  |  | | --- | --- | |  | +31 30 274 88 88 (08.00 - 17.00) | |

|  |
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|  |

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| --- |
| **SECTION 2: Hazards identification** |

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|  |

|  |  |
| --- | --- |
| **2.1** | **Classification of the substance or mixture** |

|  |  |
| --- | --- |
|  | **Classification according to Regulation (EC) No 1272/2008 [CLP]** |

|  |  |
| --- | --- |
|  | Skin Corr. 1A ; H314 - Skin corrosion/irritation : Category 1A ; Causes severe skin burns and eye damage. |
|  | Eye Dam. 1 ; H318 - Serious eye damage/eye irritation : Category 1 ; Causes serious eye damage. |

|  |  |
| --- | --- |
|  | **Classification procedure** |

|  |  |
| --- | --- |
|  | H314: Obtained on the basis of the test method H318: Obtained on the basis of the calculation method |

|  |  |
| --- | --- |
| **2.2** | **Label elements** |

|  |  |
| --- | --- |
|  | **Labelling according to Regulation (EC) No. 1272/2008 [CLP]** |

|  |  |
| --- | --- |
|  | **Hazard pictograms** |

|  |  |
| --- | --- |
|  | \\WIN-R77P079L2AJ\Envicon81\MSDS\GIF\GHS05.gif |

|  |  |
| --- | --- |
|  | Corrosion (GHS05) |

|  |  |
| --- | --- |
|  | **Signal word** |

|  |  |
| --- | --- |
|  | Danger |

|  |  |
| --- | --- |
|  | **Hazard components for labelling** |

|  |  |
| --- | --- |
|  | QUATERNARY C12-14 ALKYL METHYL AMINE ETHOXYLATE ; CAS No. : 1554325-20-0 |
|  | SODIUM HYDROXIDE ; CAS No. : 1310-73-2 |

|  |  |
| --- | --- |
|  | **Hazard statements** |

|  |  |  |
| --- | --- | --- |
|  | H314 | Causes severe skin burns and eye damage. |

|  |  |
| --- | --- |
|  | **Precautionary statements** |

|  |  |  |
| --- | --- | --- |
|  | P260 | Do not breathe dust/fume/gas/mist/vapours/spray. |
|  | P264 | Wash ... thoroughly after handling. |
|  | P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
|  | P310 | Immediately call a POISON CENTER/doctor/.... |
|  | P321 | Specific treatment (see ... on this label). |
|  | P405 | Store locked up. |

|  |  |
| --- | --- |
|  | **Remark** |

|  |  |
| --- | --- |
|  | The product is classified and labelled according to EC directives or corresponding national laws. |

|  |  |
| --- | --- |
| **2.3** | **Other hazards** |

|  |  |
| --- | --- |
|  | Prolonged or repeated skin contact may cause removal of natural fat from the skin resulting in dermatitis (skin inflammation). |

|  |  |
| --- | --- |
| **2.4** | **Additional information** |

|  |  |
| --- | --- |
|  | This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII. |

|  |
| --- |
|  |

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

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| --- |
|  |

|  |  |
| --- | --- |
| **3.2** | **Mixtures** |

|  |  |
| --- | --- |
|  | **Hazardous ingredients** |

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  |  | | --- | --- | |  | QUATERNARY C12-14 ALKYL METHYL AMINE ETHOXYLATE ; CAS No. : 1554325-20-0 | |  | |  |  |  | | --- | --- | --- | |  | Weight fraction : | ≥ 1 - < 3 % | |  | Classification 1272/2008 [CLP] : | Eye Dam. 1 ; H318  Acute Tox. 4 ; H302  Skin Irrit. 2 ; H315 | | |

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  |  | | --- | --- | |  | SODIUM HYDROXIDE ; EC No. : 215-185-5; CAS No. : 1310-73-2 | |  | |  |  |  | | --- | --- | --- | |  | Weight fraction : | ≥ 1 - < 2 % | |  | Classification 1272/2008 [CLP] : | Met. Corr. 1 ; H290  Skin Corr. 1A ; H314  Eye Dam. 1 ; H318 | | |

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  |  | | --- | --- | |  | C9-11 ALCOHOL ETHOXYLATE ; CAS No. : 68439-46-3 | |  | |  |  |  | | --- | --- | --- | |  | Weight fraction : | ≥ 1 - < 5 % | |  | Classification 1272/2008 [CLP] : | Eye Irrit. 2 ; H319 | | |

|  |  |
| --- | --- |
|  | **Additional information** |

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

|  |
| --- |
|  |

|  |
| --- |
| **SECTION 4: First aid measures** |

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| --- |
|  |

|  |  |
| --- | --- |
| **4.1** | **Description of first aid measures** |

|  |  |  |  |
| --- | --- | --- | --- |
|  | **General information**   |  |  | | --- | --- | |  | When in doubt or if symptoms are observed, get medical advice. | |

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Following inhalation**   |  |  | | --- | --- | |  | No special measures are necessary. | |

|  |  |  |  |
| --- | --- | --- | --- |
|  | **In case of skin contact**   |  |  | | --- | --- | |  | Wash immediately with: Water and soap Change contaminated, saturated clothing. Wash contaminated clothing prior to re-use. | |

|  |  |  |  |
| --- | --- | --- | --- |
|  | **After eye contact**   |  |  | | --- | --- | |  | After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately. | |

|  |  |  |  |
| --- | --- | --- | --- |
|  | **After ingestion**   |  |  | | --- | --- | |  | Call a physician in any case! Do NOT induce vomiting. If major quantity of dust is swallowed or inhaled, immediately drink: Water | |

|  |  |
| --- | --- |
| **4.2** | **Most important symptoms and effects, both acute and delayed** |

|  |  |
| --- | --- |
|  | The following symptoms may occur: No known symptoms to date. Repeated exposure may cause skin dryness or cracking. |

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

|  |  |
| --- | --- |
|  | None |

|  |
| --- |
|  |

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| --- |
| **SECTION 5: Firefighting measures** |

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|  |  |
| --- | --- |
| **5.1** | **Extinguishing media** |

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Suitable extinguishing media**   |  |  | | --- | --- | |  | Water mist Foam Extinguishing powder Carbon dioxide (CO2) | |

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Unsuitable extinguishing media**   |  |  | | --- | --- | |  | Full water jet | |

|  |  |
| --- | --- |
| **5.2** | **Special hazards arising from the substance or mixture** |

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Hazardous combustion products**   |  |  | | --- | --- | |  | Do not breathe gas/fumes/vapour/spray. Carbon monoxide Carbon dioxide (CO2) | |

|  |  |
| --- | --- |
| **5.3** | **Advice for firefighters** |

|  |  |
| --- | --- |
|  | In case of fire: Wear self-contained breathing apparatus. Protective clothing. |

|  |  |
| --- | --- |
| **5.4** | **Additional information** |

|  |  |
| --- | --- |
|  | Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. |

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| --- |
| **SECTION 6: Accidental release measures** |

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|  |  |
| --- | --- |
| **6.1** | **Personal precautions, protective equipment and emergency procedures** |

|  |  |
| --- | --- |
|  | **For non-emergency personnel** |

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Protective equipment**   |  |  | | --- | --- | |  | Avoid contact with skin, eyes and clothes. Use personal protection equipment. | |

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Emergency procedures**   |  |  | | --- | --- | |  | In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities. | |

|  |  |
| --- | --- |
| **6.2** | **Environmental precautions** |

|  |  |
| --- | --- |
|  | Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Make sure spills can be contained, e.g. in sump pallets or kerbed areas. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities. |

|  |  |
| --- | --- |
| **6.3** | **Methods and material for containment and cleaning up** |

|  |  |  |  |
| --- | --- | --- | --- |
|  | **For containment**   |  |  | | --- | --- | |  | Collect in closed and suitable containers for disposal. Treat the recovered material as prescribed in the section on waste disposal. | |

|  |  |  |  |
| --- | --- | --- | --- |
|  | **For cleaning up**   |  |  | | --- | --- | |  | Suitable material for taking up: Sand Absorbing material, organic | |

|  |  |
| --- | --- |
| **6.4** | **Reference to other sections** |

|  |  |
| --- | --- |
|  | See protective measures under point 7 and 8. |

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| --- |
| **SECTION 7: Handling and storage** |

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|  |  |
| --- | --- |
|  | \\WIN-R77P079L2AJ\Envicon81\MSDS\GIF\Verb_19.gif |

|  |  |
| --- | --- |
| **7.1** | **Precautions for safe handling** |

|  |  |
| --- | --- |
|  | **Protective measures** |

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Measures to prevent aerosol and dust generation**   |  |  | | --- | --- | |  | During filling, metering and sampling should be used if possible: Closed devices | |

|  |  |
| --- | --- |
| **7.2** | **Conditions for safe storage, including any incompatibilities** |

|  |  |
| --- | --- |
|  | **Technical measures and storage conditions** |

|  |  |
| --- | --- |
|  | Keep/Store only in original container. Suitable container/equipment material: Stainless steel Polyethylene (PE) Unsuitable container/equipment material: Butyl caoutchouc (butyl rubber) |

|  |  |
| --- | --- |
| **7.3** | **Specific end use(s)** |

|  |  |
| --- | --- |
|  | None |

|  |
| --- |
|  |

|  |
| --- |
| **SECTION 8: Exposure controls/personal protection** |

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| --- |
|  |

|  |  |
| --- | --- |
| **8.1** | **Control parameters** |

|  |  |
| --- | --- |
|  | None |

|  |  |
| --- | --- |
| **8.2** | **Exposure controls** |

|  |  |
| --- | --- |
|  | **Personal protection equipment** |

|  |  |
| --- | --- |
|  | \\WIN-R77P079L2AJ\Envicon81\MSDS\GIF\Geb_01.gif\\WIN-R77P079L2AJ\Envicon81\MSDS\GIF\Geb_06.gif |

|  |  |
| --- | --- |
|  | **Eye/face protection** |

|  |  |
| --- | --- |
|  | Eye glasses with side protection |

|  |  |
| --- | --- |
|  | **Skin protection** |

|  |  |
| --- | --- |
|  | Hand protection Suitable gloves type EN ISO 374 Butyl caoutchouc (butyl rubber) NBR (Nitrile rubber) Required properties liquid-tight. Breakthrough time (maximum wearing time) Permeation time (maximum wear time) Thickness of the glove material Nitril: 0,12 mm Butyl: 0,50 mm |

|  |  |
| --- | --- |
|  | **General information** |

|  |  |
| --- | --- |
|  | Immediately remove any contaminated clothing, shoes or stockings. Wash contaminated clothing prior to re-use. |

|  |  |
| --- | --- |
|  | **Environmental exposure controls** |

|  |  |
| --- | --- |
|  | See section 7. No additional measures necessary. |

|  |
| --- |
|  |

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| --- |
| **SECTION 9: Physical and chemical properties** |

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| --- |
|  |

|  |  |
| --- | --- |
| **9.1** | **Information on basic physical and chemical properties** |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  |  | | --- | --- | | **Appearance :** | No information available. | | **Colour :** | light yellow | | **Odour :** | characteristic | |

|  |  |
| --- | --- |
|  | **Safety characteristics** |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **Physical state :** |  |  | Liquid |  |  | | **Melting point/freezing point :** |  |  | No data available |  |  | | **Freezing point :** |  |  | No data available |  |  | | **Initial boiling point and boiling range :** | ( 1013 hPa ) | > | 100 | °C |  | | **Decomposition temperature :** |  | > | 200 | °C |  | | **Flash point :** |  |  | not applicable |  |  | | **Auto-ignition temperature :** |  |  | not applicable |  |  | | **Lower explosion limit :** |  |  | not applicable |  |  | | **Upper explosion limit :** |  |  | not applicable |  |  | | **Vapour pressure :** | ( 50 °C ) |  | not applicable |  |  | | **Density :** | ( 20 °C ) | approx. | 1 | g/cm3 |  | | **Water solubility :** | ( 20 °C ) |  | 100 | Wt % |  | | **Water solubility :** | ( 20 °C ) |  | not applicable |  |  | | **pH :** |  | > | 13 |  |  | | **Flow time :** | ( 20 °C ) |  | not applicable |  | DIN-cup 4 mm | | **Viscosity :** | ( 20 °C ) |  |  | mPa\*s |  | | **Odour threshold :** |  |  | not applicable |  |  | | **Vapourisation rate :** |  |  | not applicable |  |  | |

|  |  |
| --- | --- |
| **9.2** | **Other information** |

|  |  |
| --- | --- |
|  | None |

|  |
| --- |
|  |

|  |
| --- |
| **SECTION 10: Stability and reactivity** |

|  |
| --- |
|  |

|  |  |
| --- | --- |
| **10.1** | **Reactivity** |

|  |  |
| --- | --- |
|  | Not applicable |

|  |  |
| --- | --- |
| **10.2** | **Chemical stability** |

|  |  |
| --- | --- |
|  | Stable under normal conditions of use |

|  |  |
| --- | --- |
| **10.3** | **Possibility of hazardous reactions** |

|  |  |
| --- | --- |
|  | No information available. |

|  |  |
| --- | --- |
| **10.4** | **Conditions to avoid** |

|  |  |
| --- | --- |
|  | No information available. |

|  |  |
| --- | --- |
| **10.5** | **Incompatible materials** |

|  |  |
| --- | --- |
|  | Strong oxidizers |

|  |  |
| --- | --- |
| **10.6** | **Hazardous decomposition products** |

|  |  |
| --- | --- |
|  | No information available. |

|  |
| --- |
|  |

|  |
| --- |
| **SECTION 11: Toxicological information** |

|  |
| --- |
|  |

|  |  |
| --- | --- |
| **11.1** | **Information on toxicological effects** |

|  |  |
| --- | --- |
|  | **Acute toxicity** |

|  |  |
| --- | --- |
|  | **Acute oral toxicity** |

|  |  |  |
| --- | --- | --- |
|  | Parameter : | ATE ( QUATERNARY C12-14 ALKYL METHYL AMINE ETHOXYLATE ; CAS No. : 1554325-20-0 ) |
|  | Exposure route : | Oral |
|  | Effective dose : | 833,33 mg/kg |

|  |  |  |
| --- | --- | --- |
|  | Parameter : | LD50 ( QUATERNARY C12-14 ALKYL METHYL AMINE ETHOXYLATE ; CAS No. : 1554325-20-0 ) |
|  | Exposure route : | Oral |
|  | Species : | Rat |
|  | Effective dose : | > 300 - 2000 mg/kg |

|  |  |  |
| --- | --- | --- |
|  | Parameter : | LD50 ( C9-11 ALCOHOL ETHOXYLATE ; CAS No. : 68439-46-3 ) |
|  | Exposure route : | Oral |
|  | Species : | Rat |
|  | Effective dose : | > 2000 mg/kg |

|  |  |
| --- | --- |
|  | **Acute inhalation toxicity** |

|  |  |
| --- | --- |
|  | No information available. |

|  |  |
| --- | --- |
|  | **Corrosion** |

|  |  |
| --- | --- |
|  | **Skin corrosion/irritation** |

|  |  |
| --- | --- |
|  | No information available. |

|  |  |
| --- | --- |
|  | **Serious eye damage/eye irritation** |

|  |  |
| --- | --- |
|  | No information available. |

|  |  |
| --- | --- |
|  | **Irritation to respiratory tract** |

|  |  |
| --- | --- |
|  | No information available. |

|  |  |
| --- | --- |
|  | **Respiratory or skin sensitisation** |

|  |  |
| --- | --- |
|  | **Skin sensitisation** |

|  |  |
| --- | --- |
|  | No information available. |

|  |  |
| --- | --- |
|  | **Sensitisation to the respiratory tract** |

|  |  |
| --- | --- |
|  | No information available. |

|  |  |
| --- | --- |
|  | **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)** |

|  |  |
| --- | --- |
|  | **Carcinogenicity** |

|  |  |
| --- | --- |
|  | No information available. |

|  |  |
| --- | --- |
|  | **Germ cell mutagenicity** |

|  |  |
| --- | --- |
|  | No information available. |

|  |  |
| --- | --- |
|  | **Reproductive toxicity** |

|  |  |
| --- | --- |
|  | No information available. |

|  |  |
| --- | --- |
|  | **STOT-single exposure** |

|  |  |
| --- | --- |
|  | No information available. |

|  |  |
| --- | --- |
|  | **STOT-repeated exposure** |

|  |  |
| --- | --- |
|  | No information available. |

|  |  |
| --- | --- |
|  | **Aspiration hazard** |

|  |  |
| --- | --- |
|  | No information available. |

|  |
| --- |
|  |

|  |
| --- |
| **SECTION 12: Ecological information** |

|  |
| --- |
|  |

|  |  |
| --- | --- |
| **12.1** | **Toxicity** |

|  |  |
| --- | --- |
|  | harmless to aquatic organisms up to the tested concentration |

|  |  |
| --- | --- |
|  | **Aquatic toxicity** |

|  |  |
| --- | --- |
|  | **Acute (short-term) toxicity to aquatic algae and cyanobacteria** |

|  |  |  |
| --- | --- | --- |
|  | Parameter : | EC50 ( QUATERNARY C12-14 ALKYL METHYL AMINE ETHOXYLATE ; CAS No. : 1554325-20-0 ) |
|  | Species : | Daphnia |
|  | Effective dose : | > 1 - 10 mg/l |
|  | Exposure time : | 48 h |

|  |  |  |
| --- | --- | --- |
|  | Parameter : | EC50 ( QUATERNARY C12-14 ALKYL METHYL AMINE ETHOXYLATE ; CAS No. : 1554325-20-0 ) |
|  | Species : | Algae |
|  | Effective dose : | > 1 - 10 mg/l |
|  | Exposure time : | 72 h |

|  |  |  |
| --- | --- | --- |
|  | Parameter : | EC50 ( C9-11 ALCOHOL ETHOXYLATE ; CAS No. : 68439-46-3 ) |
|  | Species : | Daphnia pulex (water flea) |
|  | Effective dose : | > 1 - 10 mg/l |
|  | Exposure time : | 48 h |

|  |  |  |
| --- | --- | --- |
|  | Parameter : | EC50 ( C9-11 ALCOHOL ETHOXYLATE ; CAS No. : 68439-46-3 ) |
|  | Species : | Skeletonema costatum |
|  | Effective dose : | > 1 - 10 mg/l |
|  | Exposure time : | 72 h |

|  |  |
| --- | --- |
| **12.2** | **Persistence and degradability** |

|  |  |
| --- | --- |
|  | Biodegradable. |

|  |  |
| --- | --- |
| **12.3** | **Bioaccumulative potential** |

|  |  |
| --- | --- |
|  | No indication of bioaccumulation potential. |

|  |  |
| --- | --- |
| **12.4** | **Mobility in soil** |

|  |  |
| --- | --- |
|  | No information available. |

|  |  |
| --- | --- |
| **12.5** | **Results of PBT and vPvB assessment** |

|  |  |
| --- | --- |
|  | This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII. |

|  |  |
| --- | --- |
|  | The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII. |

|  |  |
| --- | --- |
| **12.6** | **Other adverse effects** |

|  |  |
| --- | --- |
|  | None |

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| --- |
| **SECTION 13: Disposal considerations** |

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|  |  |
| --- | --- |
| **13.1** | **Waste treatment methods** |

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| --- | --- |
|  | Delivery to an approved waste disposal company. Contaminated packages must be completely emptied and can be re-used following proper cleaning. Handle contaminated packages in the same way as the substance itself. |

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| **SECTION 14: Transport information** |

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| --- | --- |
| **14.1** | **UN number** |

|  |  |
| --- | --- |
|  | UN 1760 |

|  |  |
| --- | --- |
| **14.2** | **UN proper shipping name** |

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Land transport (ADR/RID)**   |  |  | | --- | --- | |  | CORROSIVE LIQUID, N.O.S.   ( SODIUM HYDROXIDE ) | |

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Sea transport (IMDG)**   |  |  | | --- | --- | |  | CORROSIVE LIQUID, N.O.S.   ( SODIUM HYDROXIDE ) | |

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Air transport (ICAO-TI / IATA-DGR)**   |  |  | | --- | --- | |  | CORROSIVE LIQUID, N.O.S.   ( SODIUM HYDROXIDE ) | |

|  |  |
| --- | --- |
| **14.3** | **Transport hazard class(es)** |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Land transport (ADR/RID)**   |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |  | |  |  | | --- | --- | | **Class(es) :** | 8 | | **Classification code :** | C9 | | **Hazard identification number (Kemler No.) :** | 88 | | **Tunnel restriction code :** | E | | **Special provisions :** | LQ 0 · E 0 | | **Hazard label(s) :** | 8 \\WIN-R77P079L2AJ\Envicon81\MSDS\GIF\GG_8.gif | | |

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Sea transport (IMDG)**   |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | |  | |  |  | | --- | --- | | **Class(es) :** | 8 | | **EmS-No. :** | F-A / S-B | | **Special provisions :** | LQ 0 · E 0 | | **Hazard label(s) :** | 8 \\WIN-R77P079L2AJ\Envicon81\MSDS\GIF\GG_8.gif | | |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Air transport (ICAO-TI / IATA-DGR)**   |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | |  | |  |  | | --- | --- | | **Class(es) :** | 8 | | **Special provisions :** | E 0 | | **Hazard label(s) :** | 8 \\WIN-R77P079L2AJ\Envicon81\MSDS\GIF\GG_8.gif | | |

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| --- | --- |
| **14.4** | **Packing group** |

|  |  |
| --- | --- |
|  | III |

|  |  |
| --- | --- |
| **14.5** | **Environmental hazards** |

|  |  |
| --- | --- |
|  | **Land transport (ADR/RID) :**   No |
|  | **Sea transport (IMDG) :**   No |
|  | **Air transport (ICAO-TI / IATA-DGR) :**   No |

|  |  |
| --- | --- |
| **14.6** | **Special precautions for user** |

|  |  |
| --- | --- |
|  | None |

|  |  |
| --- | --- |
| **14.7** | **Maritime transport in bulk according to IMO instruments** |

|  |  |
| --- | --- |
|  | Not applicable |

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| **SECTION 15: Regulatory information** |

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

|  |  |
| --- | --- |
|  | **EU legislation** |

|  |  |
| --- | --- |
|  | **Authorisations and/or restrictions on use** |

|  |  |
| --- | --- |
|  | **Restrictions on use** |

|  |  |
| --- | --- |
|  | Use restriction according to REACH annex XVII, no. :   3 |

|  |  |
| --- | --- |
|  | **Other regulations (EU)** |

|  |  |
| --- | --- |
|  | **Labelling for contents according to regulation (EC) No. 648/2004** |

|  |  |  |
| --- | --- | --- |
|  | |  | | --- | | None | |

|  |  |
| --- | --- |
| **15.2** | **Chemical safety assessment** |

|  |  |
| --- | --- |
|  | Chemical safety assessments for substances in this preparation were not carried out. |

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| **SECTION 16: Other information** |

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| **16.1** | **Indication of changes** |

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|  | 14. UN proper shipping name - Land transport (ADR/RID) · 14. UN proper shipping name - Sea transport (IMDG) · 14. UN proper shipping name - Air transport (ICAO-TI / IATA-DGR) · 14. Transport hazard class(es) - Land transport (ADR/RID) · 14. Transport hazard class(es) - Sea transport (IMDG) · 14. Transport hazard class(es) - Air transport (ICAO-TI / IATA-DGR) |

|  |  |
| --- | --- |
| **16.2** | **Abbreviations and acronyms** |

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| --- | --- |
|  | ADR = European Agreement concerning the International Carriage of Dangerous Goods by Road ASTM = American Society of Testing and Materials (US) CAS No = Chemical Abstracts Service Number (see ACS - American Chemical Society) DNEL = Derived No-Effect Level DT50 = Time for 50% loss; half-life EbC50 = Median effective concentration (biomass, e.g. of algae) EC50 = Median effective concentration EINECS = European Inventory of Existing Commercial Chemical Substance ELINCS = European List of Notified (New) Chemicals (see Tab 7, Background - Guide) ErC50 = Median effective concentration (growth rate, e.g. of algae) EWC = European Waste Catalogue IATA = International Air Transport Association IC50 = Concentration that produces 50% inhibition IMDG = International Maritime Dangerous Goods Code IMO = International Maritime Organization LC50 = Concentration required to kill 50% of test organisms LD50 = Dose required to kill 50% of test organisms LEL = Lower Explosive Limit/Lower Explosion Limit LOAEL = Lowest observed adverse effect level MRL = Maximum Residue Limit NOAEL = No Observed Adverse Effect Level NOEC = No observed effect concentration NOEL = No Observable Effect Level OEL = Occupational Exposure Limits PBT = Persistent, Bioaccumulative or Toxic PNEC = Predicted Non Effect Concentration STEL = Short-Term Exposure Limit TWA = Time-Weighted Average vPvB = Very Persistent and Very Bioaccumulative |

|  |  |
| --- | --- |
| **16.3** | **Key literature references and sources for data** |

|  |  |
| --- | --- |
|  | None |

|  |  |
| --- | --- |
| **16.4** | **Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]** |

|  |  |
| --- | --- |
|  | The classification of mixtures and applied evaluation method in accordance with regulation (EC) Nr. 1272/2008 [CLP] has been appointed in section 2.1 |

|  |  |
| --- | --- |
| **16.5** | **Relevant H- and EUH-phrases (Number and full text)** |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  |  | | --- | --- | | 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. | |

|  |  |
| --- | --- |
| **16.6** | **Training advice** |

|  |  |
| --- | --- |
|  | None |

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| **16.7** | **Additional information** |

|  |  |
| --- | --- |
|  | **Article No.:** 940 |

|  |
| --- |
| The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material. |