



**SAFETY DATA SHEET**  
**ALL PURPOSE CLEANER**

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

<b><u>1.1. Product identifier</u></b>	
Product Name	ALL PURPOSE CLEANER (APC)
Internal ID	MTS 0003
<b><u>1.2. Relevant identified uses of the substance or mixture and uses advised against</u></b>	
Identified uses	Cleaning agent
Uses advised against	Use only for intended applications.
<b><u>1.3. Details of the supplier of the safety data sheet</u></b>	
Supplier	Motor Trade Supplies Ltd Unit 5 Preston Nurseries Weghill Road Hull HU12 8SX +44 (0) 7778 411 723 <a href="mailto:sales@mtsproducts.co.uk">sales@mtsproducts.co.uk</a>
<b><u>1.4. Emergency telephone number</u></b>	
Emergency telephone	+44 (0) 7778 411 723 Opening Hours 9 am - 4 pm (Monday - Friday)

**SECTION 2: Hazards identification**

<b><u>2.1. Classification of the substance or mixture Classification (EC 1272/2008)</u></b>	
Physical hazards	Met. Corr. 1 - H290
Health hazards	Skin Corr. 1B - H314 Eye Dam. 1 - H318
Environmental hazards	Aquatic Chronic 3 - H412
<b><u>2.2. Label elements</u></b>	
Hazard Pictograms	
A red diamond-shaped pictogram with a white background, showing a liquid dripping from two test tubes onto a hand and a metal surface.	
Signal word	Danger
Hazard statements	H290 May be corrosive to metals. H314 Causes severe skin burns and eye damage. H412 Harmful to aquatic life with long lasting effects.

<b>Precautionary statements</b>	<p>P280 Wear protective clothing, gloves, eye and face protection.</p> <p>P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.</p> <p>P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.</p> <p>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P310 Immediately call a POISON CENTER/ doctor.</p> <p>P501 Dispose of contents/ container in accordance with national regulations.</p>
<b>Contains</b>	SODIUM HYDROXIDE
<b>Detergent labelling</b>	< 5% cationic surfactants, < 5% disinfectants, < 5% EDTA and salts thereof, < 5% non-ionic surfactants, < 5% perfumes, < 5% phosphates, Contains d-LIMONENE, 1,2- BENZOISOTHIAZOL-3(2H)-ONE, METHYLISOTHIAZOLINONE
<b>2.3. Other hazards</b>	
This product does not contain any substances classified as PBT or vPvB.	

### SECTION 3: Composition/information on ingredients

#### 3.1. Mixtures

<b>QUARTERNARY COCO ALKYL METHYL AMINE ETHOXYLATE METHYL CHLORIDE</b>	<b>1-5%</b>
CAS number: 1554325-20-0    EC number: 810-152-7	
<b>Classification</b> Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Dam. 1 - H318	
<b>ALCOHOL C9-11 ETHOXYLATE</b>	<b>1-5%</b>
CAS number: 68439-46-3	
<b>Classification</b> Acute Tox. 4 - H302 Eye Dam. 1 - H318	
<b>Sodium Hydroxide</b>	<b>&lt;1%</b>
CAS number: 1310-73-2    EC number: 215-185-5    REACH registration number: 01- 2119457892-27-XXXX	
<b>Classification</b> Met. Corr. 1 - H290 Skin Corr. 1A - H314 Eye Dam. 1 - H318	

<b>Sodium Silicate</b>	<b>&lt;1%</b>
CAS number: 1344-09-8    EC number: 215-687-4    REACH registration number: 01- 2119448725-31-XXXX	
<b>Classification</b> Met. Corr. 1 - H290 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 STOT SE 3 - H335	
<b>Quaternary ammonium compounds, benzyl-C12-14 (even &lt;1% numbered)-alkyldimethyl, chlorides</b>	<b>&lt;1%</b>
CAS number: 68424-85-1    EC number: 939-350-2	
M factor (Acute) = 10    M factor (Chronic) = 1	
<b>Classification</b> Acute Tox. 4 - H302 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	
<b>TETRASODIUM ETHYLENE DIAMINE TETRAACETATE</b>	<b>&lt;1%</b>
CAS number: 64-02-8    EC number: 200-573-9    REACH registration number: 01- 2119486762-27-XXXX	
<b>Classification</b> Acute Tox. 4 - H302 Acute Tox. 4 - H332 Eye Dam. 1 - H318 STOT RE 2 - H373	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

#### SECTION 4: First aid measures

##### 4.1. Description of first aid measures

<b>General information</b>	Chemical burns must be treated by a physician. Show this Safety Data Sheet to the medical personnel. If medical advice is needed, have product container or label at hand. Get medical attention immediately.
<b>Inhalation</b>	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.
<b>Ingestion</b>	Rinse mouth thoroughly with water. Do not induce vomiting. Get medical attention.
<b>Skin contact</b>	Rinse immediately with plenty of water. Get medical attention.
<b>Eye contact</b>	Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

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

<b>General information</b>	Chemical burns must be treated by a physician.
<b>Inhalation</b>	Coughing, chest tightness, feeling of chest pressure
<b>Ingestion</b>	May cause chemical burns in mouth and throat.
<b>Skin contact</b>	Causes severe burns.
<b>Eye contact</b>	Causes serious eye damage.

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

<b>Notes for the doctor</b>	Treat symptomatically.
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**SECTION 5: Firefighting measures****5.1. Extinguishing media**

<b>Suitable extinguishing media</b>	Use fire-extinguishing media suitable for the surrounding fire.
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**5.2. Special hazards arising from the substance or mixture**

<b>Hazardous combustion products</b>	Thermal decomposition or combustion products may include the following substances: Ammonia or amines. Carbon monoxide (CO). Carbon dioxide (CO <sub>2</sub> ). Nitrous gases (NO <sub>x</sub> ).
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**5.3. Advice for firefighters**

<b>Protective actions during firefighting</b>	No specific firefighting precautions known.
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**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

<b>Personal precautions</b>	Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Avoid contact with skin, eyes and clothing. Take care as floors and other surfaces may become slippery. Do not touch or walk into spilled material. Provide adequate ventilation. Do not handle broken packages without protective equipment. Avoid contact with contaminated tools and objects. Wash thoroughly after dealing with a spillage.
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**6.2. Environmental precautions**

<b>Environmental precautions</b>	Do not discharge into drains or watercourses or onto the ground.
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**6.3. Methods and material for containment and cleaning up**

<b>Methods for cleaning up</b>	Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Absorb spillage to prevent material damage. Absorb spillage with non-combustible, absorbent material. Collect and place in suitable waste disposal containers and seal securely. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Wash thoroughly after dealing with a spillage. Flush contaminated area with plenty of water.
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**6.4. Reference to other sections**

<b>Reference to other sections</b>	Wear protective clothing as described in Section 8 of this safety data sheet.
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**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

<b>Usage precautions</b>	Wear protective clothing, gloves, eye and face protection. Avoid contact with skin, eyes and clothing. May be corrosive to metals. Avoid spilling. Avoid release to the environment. Do not empty into drains. Do not eat, drink or smoke when using this product. Do not use in paint spraying equipment. Do not handle broken packages without protective
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	equipment. Avoid contact with contaminated tools and objects. Wash hands thoroughly after handling.
<b>7.2. Conditions for safe storage, including any incompatibilities</b>	
<b>Storage precautions</b>	Store at temperatures between 4°C and 40°C.
<b>Storage class</b>	Corrosive storage.
<b>7.3. Specific end use(s)</b>	
<b>Specific end use(s)</b>	The identified uses for this product are detailed in Section 1.2.

## SECTION 8: Exposure controls/Personal protection

### 8.1. Control parameters Occupational exposure limits

#### Occupational exposure limits

<b>SODIUM HYDROXIDE</b>	Short-term exposure limit (15-minute): WEL 2 mg/m <sup>3</sup>
<b>SODIUM SILICATE</b>	Short-term exposure limit (15-minute): WEL 2 mg/m <sup>3</sup> WEL = Workplace Exposure Limit

#### **DISODIUM METASILICATE (CAS: 6834-92-0)**

<b>DNEL</b>	Industry - Dermal; Long term : 1.49 mg/kg/day Industry - Inhalation; Long term : 6.22 mg/m <sup>3</sup> Consumer - Dermal; Long term : 0.74 mg/kg/day Consumer - Inhalation; Long term : 1.55 mg/m <sup>3</sup> Consumer - Oral; Long term : 0.74
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#### **tetrasodium N,N-bis(carboxylatomethyl)-L-glutamate (CAS: 51981-21-6)**

<b>DNEL</b>	Workers - Inhalation; Long term systemic effects: 7.3 mg/m <sup>3</sup> Workers - Dermal; Long term systemic effects: 15,000 mg/kg/day General population - Inhalation; Long term systemic effects: 1.8 mg/m <sup>3</sup> General population - Dermal; Long term systemic effects: 7,500 mg/kg/day General population - Oral; Long term systemic effects: 1.5 mg/kg/day
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#### **TETRA POTASSIUM PYROPHOSPHATE (CAS: 7320-34-5)**

<b>DNEL</b>	Industry - Inhalation; Long term systemic effects: 2.79 mg/m <sup>3</sup> Consumer - Inhalation; Long term systemic effects: 0.68 mg/m <sup>3</sup>
<b>PNEC</b>	Fresh water; 0.05 mg/l Marine water; 0.005 mg/l

#### **ALCOHOL C9-11 ETHOXYLATE (CAS: 68439-46-3)**

<b>DNEL</b>	Workers - Inhalation; Long term systemic effects: 294 mg/m <sup>3</sup> Workers - Dermal; Long term systemic effects: 2080 mg/kg/day General population - Inhalation; Long term systemic effects: 87 mg/m <sup>3</sup> General population - Dermal; Long term systemic effects: 1250 mg/kg/day General population - Oral; Long term systemic effects: 25 mg/kg/day
<b>PNEC</b>	Fresh water; 0.10379 mg/l Marine water; 0.10379 mg/l Fresh water, Intermittent release; 0.014 mg/l - Sediment (Freshwater); 13.7 mg/kg Sediment (Marinewater); 13.7 mg/kg Soil; 1 mg/kg STP; 1.4 mg/l

<b>SODIUM HYDROXIDE (CAS: 1310-73-2)</b>	
<b>DNEL</b>	Industry - Inhalation; Short term local effects: 1 mg/m <sup>3</sup> Industry - Inhalation; Long term local effects: 1 mg/m <sup>3</sup> Consumer - Inhalation; Short term local effects: 1 mg/m <sup>3</sup>
<b>SODIUM SILICATE (CAS: 1344-09-8)</b>	
<b>DNEL</b>	Industry - Inhalation; Long term systemic effects: 5.61 mg/m <sup>3</sup> Industry - Dermal; Long term systemic effects: 1.59 mg/kg/day Consumer - Inhalation; Long term systemic effects: 1.38 mg/m <sup>3</sup> Consumer - Dermal; Long term systemic effects: 0.8 mg/kg/day Consumer - Oral; Long term systemic effects: 0.8 mg/kg/day
<b>PNEC</b>	Fresh water; 7.5 mg/l Marine water; 1 mg/l Intermittent release; 7.5 mg/l STP; 348 mg/l
<b>Quaternary ammonium compounds, benzyl-C12-14 (even numbered)-alkyldimethyl, chlorides (CAS: 68424-85-1)</b>	
<b>DNEL</b>	Industry - Dermal; Long term systemic effects: 5.7 mg/kg/day Industry - Inhalation; Long term systemic effects: 3.96 mg/m <sup>3</sup> Consumer - Oral; Long term systemic effects: 3.4 mg/kg/day Consumer - Dermal; Long term systemic effects: 3.4 mg/kg/day Consumer - Inhalation; Long term systemic effects: 1.64 mg/m <sup>3</sup>
<b>PNEC</b>	Fresh water; .0009 mg/l Marine water; .00096 mg/l Intermittent release; .00016 mg/l Sediment (Freshwater); 12.27 mg/kg Sediment (Marinewater); 13.09 mg/kg Soil; 7.0 mg/kg STP; 0.4 mg/l
<b>TETRASODIUM ETHYLENE DIAMINE TETRAACETATE (CAS: 64-02-8)</b>	
<b>DNEL</b>	Workers - Inhalation; Long term systemic effects, local effects: 1.5 mg/m <sup>3</sup> Workers - Inhalation; Short term systemic effects, local effects: 3 mg/m <sup>3</sup> Consumer - Inhalation; Long term local effects, systemic effects: 0.6 mg/m <sup>3</sup> Consumer - Inhalation; Short term systemic effects, local effects: 1.2 mg/m <sup>3</sup> Consumer - Oral; Long term local effects, systemic effects: 25 mg/m <sup>3</sup>
<b>PNEC</b>	Fresh water; 2.2 mg/l Marine water; 0.22 mg/l Intermittent release; 1.2 mg/l - STP; 43 mg/l Soil; 0.72 mg/kg

**8.2. Exposure controls****Protective equipment****Appropriate engineering controls**

Provide adequate ventilation.

<b>Eye/face protection</b>	Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment for eye and face protection should comply with European Standard EN166. The following protection should be worn: Chemical splash goggles or face shield.
<b>Hand protection</b>	Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with European Standard EN374. The selected gloves should have a breakthrough time of at least 4 hours. The breakthrough time for any glove material may be different for different glove manufacturers. When used with mixtures, the protection time of gloves cannot be accurately estimated. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Protective gloves should have a minimum thickness of 0.15 mm. Glove thickness is not necessarily a good measure of glove resistance as the permeation rate will depend on the exact glove composition. The choice of protective gloves depends upon the chemicals being handled, and the conditions of work and use. Repeated exposure to chemicals will degrade the ability of the glove to provide resistance to chemicals. Specific work environments and material handling practices may vary, therefore safety procedures should be developed for each intended application. Gloves made from the following material may provide suitable chemical protection: Nitrile rubber. Rubber (natural, latex). Neoprene.
<b>Other skin and body protection</b>	Provide eyewash station.
<b>Hygiene measures</b>	Wash hands thoroughly after handling. Wash contaminated clothing before reuse.
<b>Respiratory protection</b>	Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Respirator selection must be based on exposure levels, the hazards of the product and the safe working limits of the selected respirator. Ensure all respiratory protective equipment is suitable for its intended use and is 'CE'-marked. Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit. Half mask and quarter mask respirators with replaceable filter cartridges should comply with European Standard EN140. Gas and combination filter cartridges should comply with European Standard EN14387. Particulate filters should comply with European Standard EN143. Disposable filtering half mask respirators should comply with European Standard EN149 or EN405. Wear a respirator fitted with the following cartridge: Check that the respirator fits tightly and the filter is changed regularly. Combination filter, type A2/P2. Dust and mist filter.

**SECTION 9: Physical and chemical properties**

<b>9.1. Information on basic physical and chemical properties</b>	
Appearance	Clear liquid.
Colour	Green-yellow.
Odour	Lemon
pH	pH (concentrated solution): > 13
Relative density	1.05 @ 25°C
Solubility(ies)	Soluble in water.
<b>9.1. Other information</b>	
Other information	Not determined.

**SECTION 10: Stability and reactivity**

<b>10.1. Reactivity</b>	
Reactivity	Reactions with the following materials may generate heat: Acids.
<b>10.2. Chemical stability</b>	
Stability	Stable at normal ambient temperatures and when used as recommended.
<b>10.3. Possibility of hazardous reactions</b>	
Stability	Not determined.
<b>10.4. Conditions to avoid</b>	
Conditions to avoid	Reactions with the following materials may generate heat: Acids.
<b>10.5. Incompatible materials</b>	
Materials to avoid	Do not mix with acid. Avoid contact with acids.
<b>10.6. Hazardous decomposition products</b>	
Hazardous decomposition products	Thermal decomposition or combustion products may include the following substances: Ammonia or amines. Carbon monoxide (CO). Carbon dioxide (CO <sub>2</sub> ). Nitrous gases (NO <sub>x</sub> ).

**SECTION 11: Toxicological information**

<b>11.1. Information on toxicological effects</b>	
ATE oral (mg/kg)	25,756.53
<b>Skin corrosion/irritation</b>	
Human skin model test	Cell Viability 73% + 65% 3 minutes Cell Viability 9% 1 hour
Extreme pH	≥ 11.5 Corrosive to skin.
<b>Serious eye damage/irritation</b>	
Serious eye damage/irritation	Corrosive to skin. Corrosivity to eyes is assumed. No testing is needed.
Inhalation	Coughing, chest tightness, feeling of chest pressure.
Ingestion	Causes severe burns. May cause chemical burns in mouth and throat.
Skin contact	Causes severe burns.
Eye contact	Causes serious eye damage
<b>Toxicological information on ingredients.</b>	
<b>DISODIUM METASILICATE</b>	
Acute toxicity dermal (LD <sub>50</sub> mg/kg)	5,000.0
Species	Rat
ATE dermal (mg/kg)	5,000.0
<b>tetrasodium N,N-bis(carboxylatomethyl)-L-glutamate</b>	
Acute toxicity oral (LD <sub>50</sub> mg/kg)	2,001.0
Species	Rat
ATE oral (mg/kg)	2,001.0
Acute toxicity dermal (LD <sub>50</sub> mg/kg)	2,001.0
Species	Rat
ATE dermal (mg/kg)	2,001.0
<b>TETRA POTASSIUM PYROPHOSPHATE</b>	
Acute toxicity oral (LD <sub>50</sub> mg/kg)	2,001.0



<b>Species</b>	Rat
<b>Acute toxicity dermal (LD<sub>50</sub> mg/kg)</b>	7,940.0
<b>Species</b>	Rabbit
<b>Reproductive toxicity development</b>	Embryotoxicity: - NOAEL: > 128 mg/kg, Oral, Rabbit
<b>Specific target organ toxicity - repeated exposure</b>	NOAEL < 10000 mg/kg, Oral, Rat
<b>QUARTERNARY COCO ALKYL METHYL AMINE ETHOXYLATE METHYL CHLORIDE</b>	
<b>Acute toxicity oral (LD<sub>50</sub> mg/kg)</b>	Estimated value
<b>ATE oral (mg/kg)</b>	833.33
<b>ALCOHOL C9-11 ETHOXYLATE</b>	
<b>ATE oral (mg/kg)</b>	500.0
<b>SODIUM HYDROXIDE</b>	
<b>Acute toxicity oral (LD<sub>50</sub> mg/kg)</b>	2,000.0
<b>Species</b>	Rat
<b>Quaternary ammonium compounds, benzyl-C12-14 (even numbered)-alkyldimethyl, chlorides</b>	
<b>Acute toxicity oral (LD<sub>50</sub> mg/kg)</b>	397.5
<b>Species</b>	Rat
<b>ATE oral (mg/kg)</b>	397.5
<b>Acute toxicity dermal (LD<sub>50</sub> mg/kg)</b>	3,412.0
<b>Species</b>	Rabbit
<b>TETRASODIUM ETHYLENE DIAMINE TETRAACETATE</b>	
<b>Acute toxicity oral (LD<sub>50</sub> mg/kg)</b>	1,780.0
<b>Species</b>	Rat
<b>ATE oral (mg/kg)</b>	1,780.0
<b>Acute toxicity – inhalation</b>	
<b>ATE inhalation (gases ppm)</b>	11,250.0
<b>ATE inhalation (vapours mg/l)</b>	27.5
<b>ATE inhalation (dusts/mists mg/l)</b>	3.75

## SECTION 12: Ecological information

<b>Ecotoxicity</b>	Harmful to aquatic life with long lasting effects.
<b>12.1. Toxicity Acute aquatic toxicity</b>	
<b>Acute toxicity - fish</b>	Not determined.
<b>Ecological information on ingredients.</b>	
<b>DISODIUM METASILICATE</b>	
<b>Acute aquatic toxicity</b>	
<b>Acute toxicity - fish</b>	LC50, 96 hours: 180 mg/l, Brachydanio rerio (Zebra Fish)
<b>Acute toxicity - aquatic invertebrates</b>	EC50, 48 hours: 1700 mg/l, Daphnia magna
<b>Acute toxicity - aquatic plants</b>	EC50, 72 hours: 207 mg/l, Scenedesmus subspicatus
<b>tetrasodium N,N-bis(carboxylatomethyl)-L-glutamate</b>	
<b>Acute toxicity - fish</b>	LC50, 96 hours: ~ 100 mg/l, Oncorhynchus mykiss (Rainbow trout)
<b>Acute toxicity - aquatic invertebrates</b>	EC <sub>50</sub> , 48 hours: > 100 mg/l, Daphnia magna
<b>TETRA POTASSIUM PYROPHOSPHATE</b>	
<b>Acute aquatic toxicity</b>	
<b>Acute toxicity - fish</b>	LC50, 96 hours: > 100 mg/l, Oncorhynchus mykiss (Rainbow trout)
<b>Acute toxicity - aquatic invertebrates</b>	EC50, 48 hours: 100 mg/l, Daphnia magna
<b>Acute toxicity - aquatic plants</b>	IC50, 72 hours: 100 mg/l, Freshwater algae
<b>QUARTERNARY COCO ALKYL METHYL AMINE ETHOXYLATE METHYL CHLORIDE</b>	
<b>Acute aquatic toxicity</b>	
<b>Acute toxicity - fish</b>	LC50, 96 hours: >10 - 100 mg/l mg/l, Fish
<b>Acute toxicity - aquatic invertebrates</b>	EC50, 48 hours: 1 - 10 mg/l mg/l, Daphnia magna
<b>ALCOHOL C9-11 ETHOXYLATE</b>	
<b>Acute aquatic toxicity</b>	
<b>Acute toxicity - fish</b>	LC50, 96 hours: 57 mg/l, Oncorhynchus mykiss (Rainbow trout)
<b>Acute toxicity - aquatic invertebrates</b>	EC50, 48 hours: 2.5 mg/l, Daphnia magna
<b>SODIUM HYDROXIDE</b>	
<b>Acute aquatic toxicity</b>	
<b>Acute toxicity - fish</b>	LC50, 48 hours: ~ 145 mg/l, Poecilia reticulata (Guppy) REACH dossier information.

<b>Acute toxicity - aquatic invertebrates</b>	EC50, 48 hours: ~ 76 mg/l, Daphnia magna REACH dossier information.
<b>Quaternary ammonium compounds, benzyl-C12-14 (even numbered)-alkyldimethyl, chlorides</b>	
<b>Acute aquatic toxicity</b>	
<b>LE(C)<sub>50</sub></b>	0.01 < L(E)C50 ≤ 0.1
<b>M factor (Acute)</b>	10
<b>Acute toxicity - aquatic invertebrates</b>	EC <sub>50</sub> , 48 hours: 0.03 mg/l mg/l, Daphnia magna
<b>Acute toxicity - aquatic plants</b>	EC <sub>50</sub> , 96 hours: ~ 0.06 mg/l, Selenastrum capricornutum
<b>Chronic aquatic toxicity</b>	
<b>M factor (Chronic)</b>	1
<b>TETRASODIUM ETHYLENE DIAMINE TETRAACETATE</b>	
<b>Acute aquatic toxicity</b>	
<b>Acute toxicity - fish</b>	LC50, 96 hours: > 100 mg/l, Lepomis macrochirus (Bluegill)
<b>Acute toxicity - aquatic invertebrates</b>	EC50, 48 hours: >100 mg/l, Daphnia magna
<b>12.2. Persistence and degradability</b>	
Persistence and degradability The product is expected to be biodegradable.	
<b>12.3. Bioaccumulative potential</b>	
<b>Bioaccumulative potential</b>	The product does not contain any substances expected to be bioaccumulating.
<b>12.4. Mobility in soil</b>	
<b>Mobility</b>	The product is soluble in water.
<b>12.5. Results of PBT and vPvB assessment</b>	
<b>Results of PBT and vPvB assessment</b>	This product does not contain any substances classified as PBT or vPvB.
<b>12.6. Other adverse effects</b>	
<b>Other adverse effects</b>	Not determined.

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

<b>Disposal methods</b>	Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements.
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**SECTION 14: Transport information****Special Provisions note**

<b>General</b>	For limited quantity packaging/limited load information, consult the relevant modal documentation using the data shown in this section.
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**14.1. UN number**

<b>UN No. (ADR/RID)</b>	1760
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<b>UN No. (IMDG)</b>	1760
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<b>UN No. (ICAO)</b>	1760
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**14.2. UN proper shipping name**

<b>Proper shipping name (ADR/RID)</b>	CORROSIVE LIQUID, N.O.S.(sodium hydroxide)
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<b>Proper shipping name (IMDG)</b>	CORROSIVE LIQUID, N.O.S.(sodium hydroxide)
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<b>Proper shipping name (ICAO)</b>	CORROSIVE LIQUID, N.O.S.(sodium hydroxide)
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**14.3. Transport hazard class(es)**

<b>ADR/RID class</b>	8
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<b>ADR/RID classification code</b>	C9
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<b>ADR/RID label</b>	8
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<b>IMDG class</b>	8
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<b>ICAO class/division</b>	8
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**Transport labels**

<b>14.4. Packing group</b>	
ADR/RID packing group	III
IMDG packing group	III
ICAO packing group	III
<b>14.5. Environmental hazards</b>	
Environmentally hazardous substance/marine pollutant: No	
<b>14.6. Special precautions for user</b>	
EmS	F-A, S-B
ADR transport category	3
Emergency Action Code	2X
Hazard Identification Number (ADR/RID)	80
Tunnel restriction code	(D/E)
<b>14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code</b>	
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.

#### SECTION 15: Regulatory information

<b>15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture</b>	
National regulations	Control of Substances Hazardous to Health Regulations 2002 (as amended).
EU legislation	Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents (as amended). Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). Commission Regulation (EU) No 453/2010 of 20 May 2010. Commission Regulation (EU) No 2015/830 of 28 May 2015.
Guidance	Workplace Exposure Limits EH40.
<b>15.2. Chemical safety assessment</b>	
No chemical safety assessment has been carried out.	

#### SECTION 16: Other information

<b>Abbreviations and acronyms used in the safety data sheet</b>	<p>ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.</p> <p>ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.</p> <p>CAS: Chemical Abstracts Service.</p> <p>DNEL: Derived No Effect Level.</p> <p>EC50: 50% of maximal Effective Concentration.</p> <p>ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.</p> <p>IMDG: International Maritime Dangerous Goods.</p> <p>LC50: Lethal Concentration to 50 % of a test population.</p> <p>LD50: Lethal Dose to 50% of a test population (Median Lethal Dose).</p> <p>NOAEL: No Observed Adverse Effect Level.</p> <p>PBT: Persistent, Bioaccumulative and Toxic substance.</p> <p>PNEC: Predicted No Effect Concentration.</p> <p>REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.</p> <p>UN: United Nations.</p> <p>vPvB: Very Persistent and Very Bioaccumulative.</p>
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<b>Classification abbreviations and acronyms</b>	Acute Tox. = Acute toxicity Aquatic Acute = Hazardous to the aquatic environment (acute) Aquatic Chronic = Hazardous to the aquatic environment (chronic) Eye Dam. = Serious eye damage Eye Irrit. = Eye irritation Met. Corr. = Corrosive to metals Skin Corr. = Skin corrosion Skin Irrit. = Skin irritation STOT RE = Specific target organ toxicity-repeated exposure STOT SE = Specific target organ toxicity-single exposure
<b>Hazard statements in full</b>	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. H332 Harmful if inhaled. H335 May cause respiratory irritation. H373 May cause damage to organs (Respiratory system, lungs) through prolonged or repeated exposure. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.
<b>Revision comments</b>	N/A
<b>Revision date</b>	01/10/20
<b>Revision</b>	1.0
<b>Supersedes date</b>	N/A

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