



## SAFETY DATA SHEET CHLOROCLEAN WITH FOAM

According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended.

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

#### 1.1. Product identifier

Product name CHLOROCLEAN WITH FOAM

Internal identification C957

UFI UFI: 7E00-E04S-700Q-QWUG

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

Identified uses Cleaning agent.

Uses advised against Use only for intended applications.

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

Supplier ARROW SOLUTIONS  
RAWDON ROAD,  
MOIRA,  
SWADLINCOTE,  
DERBYSHIRE,  
DE12 6DA,  
ENGLAND  
TEL: +44 (0)1283 221044  
sales@arrowchem.com

#### 1.4. Emergency telephone number

Emergency telephone +44 (0) 777 8505 330 (24 hrs).

### SECTION 2: Hazards identification

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

##### Classification (SI 2019 No. 720)

Physical hazards Met. Corr. 1 - H290

Health hazards Skin Corr. 1A - H314 Eye Dam. 1 - H318

Environmental hazards Aquatic Acute 1 - H400 Aquatic Chronic 2 - H411

#### 2.2. Label elements

##### Hazard pictograms



Signal word Danger

## CHLOROCLEAN WITH FOAM

<b>Hazard statements</b>	H290 May be corrosive to metals. H314 Causes severe skin burns and eye damage. H400 Very toxic to aquatic life. H411 Toxic to aquatic life with long lasting effects.
<b>Precautionary statements</b>	P273 Avoid release to the environment. P280 Wear protective clothing, gloves, eye and face 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 or shower. 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/ doctor. P501 Dispose of contents/ container in accordance with national regulations.
<b>UFI</b>	UFI: 7E00-E04S-700Q-QWUG
<b>Contains</b>	POTASSIUM HYDROXIDE
<b>Detergent labelling</b>	< 5% chlorine-based bleaching agents, < 5% non-ionic surfactants, < 5% phosphates

### 2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

<b>POTASSIUM HYDROXIDE</b>	<b>5-10%</b>
CAS number: 1310-58-3                      EC number: 215-181-3	
<b>Classification</b> Met. Corr. 1 - H290 Acute Tox. 4 - H302 Skin Corr. 1A - H314 Eye Dam. 1 - H318	
<b>AMINES, C12-14 (EVEN NUMBERED)-ALKYLDIMETHYL, N-OXIDES</b>	<b>1-5%</b>
CAS number: 308062-28-4                      EC number: 931-292-6 M factor (Acute) = 1	
<b>Classification</b> Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Aquatic Acute 1 - H400 Aquatic Chronic 2 - H411	

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<b>SODIUM HYPOCHLORITE SOLUTION ...% CI ACTIVE</b>	<b>1-5%</b>
CAS number: 7681-52-9	EC number: 231-668-3
M factor (Acute) = 10	M factor (Chronic) = 1
<b>Classification</b> Skin Corr. 1B - H314 Eye Dam. 1 - H318 STOT SE 3 - H335 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	
<b>TETRA POTASSIUM PYROPHOSPHATE</b>	<b>&lt;1%</b>
CAS number: 7320-34-5	EC number: 230-785-7
<b>Classification</b> Eye Irrit. 2 - H319	
<b>sodium hydroxide</b>	<b>&lt;1%</b>
CAS number: 1310-73-2	EC number: 215-185-5
<b>Classification</b> Met. Corr. 1 - H290 Skin Corr. 1A - H314 Eye Dam. 1 - H318	

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>	Get medical attention immediately. Chemical burns must be treated by a physician. If medical advice is needed, have product container or label at hand. Show this Safety Data Sheet to the medical personnel.
<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 immediately.
<b>Skin contact</b>	Rinse immediately with plenty of water. Get medical attention immediately.
<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, oesophagus and stomach.
<b>Skin contact</b>	Causes severe burns.
<b>Eye contact</b>	Severe irritation, burning and tearing. Causes serious eye damage.

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

**Notes for the doctor** Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

**Suitable extinguishing media** Use fire-extinguishing media suitable for the surrounding fire.

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

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

#### 5.3. Advice for firefighters

**Protective actions during firefighting** No specific firefighting precautions known.

### SECTION 6: Accidental release measures

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

**Personal precautions** Ensure procedures and training for emergency decontamination and disposal are in place. No action shall be taken without appropriate training or involving any personal risk. Keep unnecessary and unprotected personnel away from the spillage. Evacuate area. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Do not touch or walk into spilled material. Avoid contact with skin, eyes and clothing. Provide adequate ventilation. Take care as floors and other surfaces may become slippery. Avoid contact with contaminated tools and objects. Do not handle broken packages without protective equipment. Wash thoroughly after dealing with a spillage.

#### 6.2. Environmental precautions

**Environmental precautions** Do not discharge into drains or watercourses or onto the ground.

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

**Methods for cleaning up** 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. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage.

#### 6.4. Reference to other sections

**Reference to other sections** Wear protective clothing as described in Section 8 of this safety data sheet.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

**Usage precautions** Observe any occupational exposure limits for the product or ingredients. Avoid release to the environment. Wear protective clothing, gloves, eye and face protection. Avoid spilling. May be corrosive to metals. Avoid contact with skin, eyes and clothing. Do not breathe vapour/spray. Do not reuse empty containers. Do not empty into drains. Do not eat, drink or smoke when using this product. Avoid contact with contaminated tools and objects. Do not handle broken packages without protective equipment. Wash hands thoroughly after handling.

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

**Storage precautions** Store at temperatures between 0°C and 40°C. Store in tightly-closed, original container. Keep only in the original container.

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**Storage class** Corrosive storage.

### 7.3. Specific end use(s)

**Specific end use(s)** 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

#### **POTASSIUM HYDROXIDE**

Short-term exposure limit (15-minute): WEL 2 mg/m<sup>3</sup>

#### **SODIUM HYPOCHLORITE SOLUTION ...% CI ACTIVE**

Short-term exposure limit (15-minute): WEL 0.5 ppm 1.5 mg/m<sup>3</sup>

#### **sodium hydroxide**

Short-term exposure limit (15-minute): WEL 2 mg/m<sup>3</sup>

WEL = Workplace Exposure Limit.

#### POTASSIUM HYDROXIDE (CAS: 1310-58-3)

**DNEL** Industry - Inhalation; Long term local effects: 1 mg/m<sup>3</sup>  
Consumer - Inhalation; Long term local effects: 1 mg/m<sup>3</sup>

#### AMINES, C12-14 (EVEN NUMBERED)-ALKYLDIMETHYL, N-OXIDES (CAS: 308062-28-4)

**DNEL** Workers - Dermal; systemic effects: 11 mg/kg/day  
Workers - Inhalation; Long term systemic effects: 15.5 mg/m<sup>3</sup>  
Workers - Dermal; local effects: 0.27 %  
General population - Dermal; Long term systemic effects: 5.5 mg/kg/day  
General population - Inhalation; Long term systemic effects: 1.53 mg/m<sup>3</sup>  
General population - Oral; Long term systemic effects: 0.44 mg/kg/day

**PNEC** - Fresh water; 0.0335 mg/l  
- marine water; 0.00335 mg/l  
- Water, Intermittent release; 0.0335 mg/l  
- Sediment (Freshwater); 5.24 mg/kg  
- Sediment (Marinewater); 0.524 mg/l  
- Soil; 1.02 mg/kg  
- STP; 24 mg/kg

#### SODIUM HYPOCHLORITE SOLUTION ...% CI ACTIVE (CAS: 7681-52-9)

**DNEL** Workers - Inhalation; Short term systemic effects: 3.1 mg/m<sup>3</sup>  
Workers - Inhalation; Short term local effects: 3.1 mg/m<sup>3</sup>  
Workers - Inhalation; Long term local effects: 1.55 mg/m<sup>3</sup>  
Workers - Inhalation; Long term systemic effects: 1.55 mg/m<sup>3</sup>  
Consumer - Inhalation; Long term systemic effects: 1.55 mg/m<sup>3</sup>  
Consumer - Inhalation; Long term local effects: 1.55 mg/m<sup>3</sup>  
Consumer - Inhalation; Short term : 3.1 mg/m<sup>3</sup>  
Consumer - Oral; Long term systemic effects: 0.26 mg/kg/day

**PNEC** - Fresh water; 0.00021 mg/l  
- Intermittent release; 0.00026 mg/l  
- marine water; 0.000042 mg/l  
- STP; 0.03 mg/l

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### TETRA POTASSIUM PYROPHOSPHATE (CAS: 7320-34-5)

<b>DNEL</b>	Industry - Inhalation; Long term systemic effects: 44.08 mg/m <sup>3</sup> General population - Inhalation; Long term systemic effects: 10.87 mg/m <sup>3</sup> General population - Oral; Long term systemic effects: 71 mg/kg/day
<b>PNEC</b>	- Fresh water; 0.05 mg/l - marine water; 0.005 mg/l Intermittent release; 0.5 mg/l STP; 50 mg/l

### sodium hydroxide (CAS: 1310-73-2)

<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>
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## 8.2. Exposure controls

### Protective equipment



### Appropriate engineering controls

Observe any occupational exposure limits for the product or ingredients.

### Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment that provides appropriate eye and face protection should be worn. The following protection should be worn: Chemical splash goggles or face shield.

### Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. To protect hands from chemicals, wear gloves that are proven to be impervious to the chemical and resist degradation. 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. 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. 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. Frequent changes are recommended. 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. Neoprene. Rubber (natural, latex). Viton rubber (fluoro rubber).

### Other skin and body protection

Wear apron or protective clothing in case of contact. Provide eyewash station.

### Hygiene measures

Wash hands thoroughly after handling. Wash contaminated clothing before reuse.

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<b>Respiratory protection</b>	No specific requirements are anticipated under normal conditions of use. 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 'UKCA'-marked. Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit. Gas and combination filter cartridges suitable for intended use should be used. Disposable filtering half mask respirators suitable for intended use should be used. Check that the respirator fits tightly and the filter is changed regularly. Wear a respirator fitted with the following cartridge: Particulate filter, type P1.
<b>Environmental exposure controls</b>	Store in a demarcated bunded area to prevent release to drains and/or watercourses. Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.

### SECTION 9: Physical and chemical properties

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

<b>Appearance</b>	Liquid.
<b>Colour</b>	Colourless to pale yellow.
<b>Odour</b>	Chlorine.
<b>pH</b>	pH (concentrated solution): >13.0
<b>Melting point</b>	Not determined.
<b>Initial boiling point and range</b>	Not determined.
<b>Flash point</b>	Not applicable.
<b>Evaporation rate</b>	Not applicable.
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	Not applicable.
<b>Other flammability</b>	Not applicable.
<b>Vapour pressure</b>	Not determined.
<b>Relative density</b>	~ 1.16 @ 20°C
<b>Solubility(ies)</b>	Completely soluble in water.
<b>Partition coefficient</b>	Not determined.
<b>Auto-ignition temperature</b>	Not applicable.
<b>Decomposition Temperature</b>	Not applicable.
<b>Viscosity</b>	Not determined.
<b>Explosive properties</b>	There are no chemical groups present in the product that are associated with explosive properties.
<b>Oxidising properties</b>	There are no chemical groups present in the product that are associated with oxidising properties.
<b>Comments</b>	Information declared as "Not available" or "Not applicable" is not considered to be relevant to the implementation of the proper control measures.

#### 9.2. Other information

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**Other information** Not determined.

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

**Reactivity** The following materials may react with the product: Acids.

#### 10.2. Chemical stability

**Stability** Stable at normal ambient temperatures and when used as recommended.

#### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** Not determined.

#### 10.4. Conditions to avoid

**Conditions to avoid** Avoid exposure to high temperatures or direct sunlight. Acids.

#### 10.5. Incompatible materials

**Materials to avoid** Acids. Strong acids.

#### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Thermal decomposition or combustion products may include the following substances: Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). Chlorine. Nitrous gases (NO<sub>x</sub>). Phosphorus.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

##### Acute toxicity - oral

**Notes (oral LD<sub>50</sub>)** Based on available data the classification criteria are not met.

**ATE oral (mg/kg)** 3,193.66

##### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** Based on available data the classification criteria are not met.

##### Acute toxicity - inhalation

**Notes (inhalation LC<sub>50</sub>)** Based on available data the classification criteria are not met.

##### Skin corrosion/irritation

**Skin corrosion/irritation** Corrosive to skin.

##### Serious eye damage/irritation

**Serious eye damage/irritation** Causes serious eye damage.

##### Respiratory sensitisation

**Respiratory sensitisation** Based on available data the classification criteria are not met.

##### Skin sensitisation

**Skin sensitisation** Based on available data the classification criteria are not met.

##### Germ cell mutagenicity

**Genotoxicity - in vitro** Does not contain any substances known to be mutagenic.

##### Carcinogenicity

**Carcinogenicity** Does not contain any substances known to be carcinogenic.

##### Reproductive toxicity

**Reproductive toxicity - fertility** Does not contain any substances known to be toxic to reproduction.

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### Specific target organ toxicity - single exposure

**STOT - single exposure**      Based on available data the classification criteria are not met.

### Specific target organ toxicity - repeated exposure

**STOT - repeated exposure**      Based on available data the classification criteria are not met.

### Aspiration hazard

**Aspiration hazard**      Not relevant.

### **Inhalation**

Coughing, chest tightness, feeling of chest pressure.

### **Ingestion**

May cause chemical burns in mouth, oesophagus and stomach.

### **Skin contact**

Causes severe burns.

### **Eye contact**

Causes serious eye damage.

### **Acute and chronic health hazards**

Causes severe burns.

### **Route of exposure**

Not specific

### **Target organs**

No specific target organs known.

### **Medical symptoms**

Chemical burns.

### Toxicological information on ingredients.

#### POTASSIUM HYDROXIDE

##### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)**      333.0

**Species**      Rat

**ATE oral (mg/kg)**      333.0

#### AMINES, C12-14 (EVEN NUMBERED)-ALKYLDIMETHYL, N-OXIDES

##### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)**      1,064.0

**Species**      Rat

**Notes (oral LD<sub>50</sub>)**

**ATE oral (mg/kg)**      1,064.0

##### Acute toxicity - dermal

**Acute toxicity dermal (LD<sub>50</sub> mg/kg)**      2,000.01

**Species**      Rat

**ATE dermal (mg/kg)**      2,000.01

#### SODIUM HYPOCHLORITE SOLUTION ...% CI ACTIVE

##### Acute toxicity - oral

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**Notes (oral LD<sub>50</sub>)** LD<sub>50</sub> >1100 mg/kg, Oral, Rat

### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** LD<sub>50</sub> >20000 mg/kg, Dermal, Rabbit

### Reproductive toxicity

**Reproductive toxicity - fertility** Fertility - NOAEL 5 mg/kg, Oral, Rat

### Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** NOAEL 50 mg/kg, Oral, Rat

## TETRA POTASSIUM PYROPHOSPHATE

### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub>)** 2,001.0 mg/kg

**Species** Rat

### Acute toxicity - dermal

**Acute toxicity dermal (LD<sub>50</sub>)** 7,940.0 mg/kg

**Species** Rabbit

## SECTION 12: Ecological information

**Ecotoxicity** Very toxic to aquatic life with long lasting effects.

### 12.1. Toxicity

#### Acute aquatic toxicity

**Acute toxicity - fish** Not determined.

#### Chronic aquatic toxicity

**Chronic toxicity - fish early life stage** Not determined.

#### Ecological information on ingredients.

### POTASSIUM HYDROXIDE

#### Acute aquatic toxicity

**Acute toxicity - fish** LC<sub>50</sub>, 24 hours: 165 mg/l, Poecilia reticulata (Guppy)

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: 40-240 mg/l, Daphnia magna

### AMINES, C12-14 (EVEN NUMBERED)-ALKYLDIMETHYL, N-OXIDES

#### Acute aquatic toxicity

**LE(C)<sub>50</sub>** 0.1 < L(E)C<sub>50</sub> ≤ 1

**M factor (Acute)** 1

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 2.67 mg/l, Fish

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**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: 3.1 mg/l, Daphnia magna

**Acute toxicity - aquatic plants** EC<sub>50</sub>, 72 hours: 0.146 mg/l, Algae

### Chronic aquatic toxicity

**Chronic toxicity - fish early life stage** NOEC, 302 days: 0.42 mg/l, Fish

**Chronic toxicity - aquatic invertebrates** NOEC, 21 days: 0.7 mg/l, Daphnia magna

## SODIUM HYPOCHLORITE SOLUTION ...% CI ACTIVE

### Acute aquatic toxicity

**LE(C)<sub>50</sub>** 0.01 < L(E)C<sub>50</sub> ≤ 0.1

**M factor (Acute)** 10

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 0.06 mg/l, Oncorhynchus mykiss (Rainbow trout)  
NOEC, 96 hours: 0.04 mg/l, Menidia peninsulae (Tidewater silverside)

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: 0.141 mg/l, Daphnia magna

**Acute toxicity - aquatic plants** NOEC, 7 days: 0.0021 mg/l, Freshwater algae

**Acute toxicity - microorganisms** EC<sub>50</sub>, 3 hours: >3 mg/l, Activated sludge

### Chronic aquatic toxicity

**M factor (Chronic)** 1

**Chronic toxicity - fish early life stage** NOEC, 28 days: 0.04 mg/l, Menidia peninsulae (Tidewater silverside)

**Chronic toxicity - aquatic invertebrates** NOEC, 15 days: 0.007 mg/l, Marinewater invertebrates

## TETRA POTASSIUM PYROPHOSPHATE

### Acute aquatic toxicity

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: > 100 mg/l, Oncorhynchus mykiss (Rainbow trout)

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: 100 mg/l, Daphnia magna

**Acute toxicity - aquatic plants** EC<sub>50</sub>, 72 hours: 101 mg/l, Algae

**Acute toxicity - microorganisms** EC<sub>50</sub>, 3 hours: 1000 mg/l, Activated sludge

### sodium hydroxide

### Acute aquatic toxicity

**Acute toxicity - fish** LC<sub>50</sub>, 48 hours: ~ 145 mg/l, Poecilia reticulata (Guppy)

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**Acute toxicity - aquatic invertebrates**      EC<sub>50</sub>, 48 hours: ~ 76 mg/l, Daphnia magna

### 12.2. Persistence and degradability

**Persistence and degradability**      The product is expected to be biodegradable.

### 12.3. Bioaccumulative potential

**Bioaccumulative potential**      The product does not contain any substances expected to be bioaccumulating.

**Partition coefficient**      Not determined.

### 12.4. Mobility in soil

**Mobility**      The product is soluble in water.

### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment**      This product does not contain any substances classified as PBT or vPvB.

### 12.6. Other adverse effects

**Other adverse effects**      Not determined.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**Disposal methods**      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.

## SECTION 14: Transport information

**General**      For limited quantity packaging/limited load information, consult the relevant modal documentation using the data shown in this section.

### **Special Provisions note**

#### 14.1. UN number

**UN No. (ADR/RID)**      1719

**UN No. (IMDG)**      1719

**UN No. (ICAO)**      1719

#### 14.2. UN proper shipping name

**Proper shipping name (ADR/RID)**      CAUSTIC ALKALI LIQUID, N.O.S.(sodium hypochlorite, potassium hydroxide)

**Proper shipping name (IMDG)**      CAUSTIC ALKALI LIQUID, N.O.S.(sodium hypochlorite, potassium hydroxide)

**Proper shipping name (ICAO)**      CAUSTIC ALKALI LIQUID, N.O.S.(sodium hypochlorite, potassium hydroxide)

#### 14.3. Transport hazard class(es)

**ADR/RID class**      8

**ADR/RID classification code**      C5

**ADR/RID label**      8

**IMDG class**      8

**ICAO class/division**      8

## CHLOROCLEAN WITH FOAM

### Transport labels



#### 14.4. Packing group

ADR/RID packing group II

IMDG packing group II

ICAO packing group II

#### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



#### 14.6. Special precautions for user

IMDG Code segregation group 18. Alkalis

EmS F-A, S-B

ADR transport category 2

Emergency Action Code 2R

Hazard Identification Number (ADR/RID) 80

Tunnel restriction code (E)

#### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

### SECTION 15: Regulatory information

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

**National regulations** Control of Substances Hazardous to Health Regulations 2002 (as amended). The Detergents Regulations 2010 (SI 2010 No. 740) (as amended). The Detergents (Amendment) (EU Exit) Regulations 2019 (SI 2019 No. 612) (as amended). The Detergents (Safeguarding) (Amendment) (EU Exit) Regulations 2019 (SI 2019 No. 671) (as amended). The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 (SI 2020 No. 1577) (as amended).

**Guidance** Workplace Exposure Limits EH40.

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

### SECTION 16: Other information

## CHLOROCLEAN WITH FOAM

<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>ATE: Acute Toxicity Estimate.</p> <p>CAS: Chemical Abstracts Service.</p> <p>DNEL: Derived No Effect Level.</p> <p>EC<sub>50</sub>: 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>NOEC: No Observed Effect Concentration.</p> <p>PBT: Persistent, Bioaccumulative and Toxic substance.</p> <p>PNEC: Predicted No Effect Concentration.</p> <p>REACH: The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577.</p> <p>UN: United Nations.</p> <p>vPvB: Very Persistent and Very Bioaccumulative.</p>
<b>Classification abbreviations and acronyms</b>	<p>Acute Tox. = Acute toxicity</p> <p>Aquatic Acute = Hazardous to the aquatic environment (acute)</p> <p>Aquatic Chronic = Hazardous to the aquatic environment (chronic)</p> <p>Eye Dam. = Serious eye damage</p> <p>Eye Irrit. = Eye irritation</p> <p>Met. Corr. = Corrosive to metals</p> <p>Skin Corr. = Skin corrosion</p> <p>Skin Irrit. = Skin irritation</p> <p>STOT SE = Specific target organ toxicity-single exposure</p>
<b>Classification procedures according to SI 2019 No. 720</b>	<p>Met. Corr. 1 - H290: Expert judgement. Skin Corr. 1A - H314, Eye Dam. 1 - H318, Aquatic Acute 1 - H400, Aquatic Chronic 2 - H411: Calculation method., Expert judgement.</p>
<b>Revision comments</b>	NOTE: Lines within the margin indicate significant changes from the previous revision.
<b>Revision date</b>	30/03/2022
<b>Revision</b>	3.1
<b>Supersedes date</b>	30/03/2020
<b>SDS number</b>	25587
<b>Hazard statements in full</b>	<p>H290 May be corrosive to metals.</p> <p>H302 Harmful if swallowed.</p> <p>H314 Causes severe skin burns and eye damage.</p> <p>H315 Causes skin irritation.</p> <p>H318 Causes serious eye damage.</p> <p>H319 Causes serious eye irritation.</p> <p>H335 May cause respiratory irritation.</p> <p>H400 Very toxic to aquatic life.</p> <p>H410 Very toxic to aquatic life with long lasting effects.</p> <p>H411 Toxic to aquatic life with long lasting effects.</p>

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