

This safety data sheet was created pursuant to the requirements of:  
UK REACH Regulations (SI 2019/758 as amended)

Supersedes date 26-Aug-2021

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Revision Number 4

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

### 1.1. Product identifier

Product Code(s) 14130  
Safety data sheet number 14130  
Product Name BIOMATE 5702

Pure substance/mixture Mixture

Contains SODIUM HYPOCHLORITE SOLUTION, ... % Cl ACTIVE; SODIUM HYDROXIDE

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

Recommended use Biocide

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

#### Supplier

Univar Solutions UK Ltd  
Aquarius House  
6 Mid Point Business Park  
Bradford  
GBR

For further information, please contact

E-mail address SDS.EMEA@univarsolutions.com  
Non-Emergency Telephone Number +44 1274 267300 / +44 1274 267306

### 1.4. Emergency telephone number

Emergency Telephone SGS - +32 (0)3 575 55 55 (24h)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

|                                   |                                    |
|-----------------------------------|------------------------------------|
| Corrosive to metals               | Category 1 - (H290)                |
| Skin corrosion/irritation         | Category 1 Sub-category B - (H314) |
| Serious eye damage/eye irritation | Category 1 - (H318)                |
| Acute aquatic toxicity            | Category 1 - (H400)                |
| Chronic aquatic toxicity          | Category 1 - (H410)                |

**2.2. Label elements**

Contains SODIUM HYPOCHLORITE SOLUTION, ... % Cl ACTIVE; SODIUM HYDROXIDE

**Signal word**

Danger

**Hazard statements**

H314 - Causes severe skin burns and eye damage

H410 - Very toxic to aquatic life with long lasting effects

H290 - May be corrosive to metals

EUH031 - Contact with acids liberates toxic gas

**Precautionary statements**

P273 - Avoid release to the environment

P280 - Wear protective gloves/protective clothing and eye/face protection

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

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310 - Immediately call a POISON CENTER or doctor

P391 - Collect spillage

**Unknown aquatic toxicity****2.3. Other hazards**

No information available.

**SECTION 3: Composition/information on ingredients****3.1 Substances**

Not applicable

**3.2 Mixtures**

| Chemical name                                              | Weight-% | EC No (EU Index No)         | UK REACH registration number | Classification according to GB CLP (SI 2020/1567 as amended)                                                | Specific concentration limit (SCL) | M-Factor | M-Factor (long-term) |
|------------------------------------------------------------|----------|-----------------------------|------------------------------|-------------------------------------------------------------------------------------------------------------|------------------------------------|----------|----------------------|
| SODIUM HYPOCHLORITE SOLUTION, ... % Cl ACTIVE<br>7681-52-9 | 10 - 20% | 231-668-3<br>(017-011-00-1) | -                            | (EUH031)<br>Skin Corr. 1B (H314)<br>Eye Dam. 1 (H318)<br>Aquatic Acute 1 (H400)<br>Aquatic Chronic 1 (H410) | -                                  | 10       | 1                    |
| SODIUM CARBONATE<br>497-19-8                               | 0 - 10%  | 207-838-8<br>(011-005-00-2) | -                            | Eye Irrit. 2 (H319)                                                                                         | -                                  | -        | -                    |

|                                  |         |                             |                         |                                                                  |                                                                                                                          |   |   |
|----------------------------------|---------|-----------------------------|-------------------------|------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|---|---|
| SODIUM<br>HYDROXIDE<br>1310-73-2 | 0 - 10% | 215-185-5<br>(011-002-00-6) | UK-01-6126796028-6-XXXX | Met. Corr. 1 (H290)<br>Skin Corr. 1A (H314)<br>Eye Dam. 1 (H318) | Eye Irrit. 2 ::<br>0.5%≤C<2%<br>Skin Corr. 1A ::<br>C≥5%<br>Skin Corr. 1B ::<br>2%≤C<5%<br>Skin Irrit. 2 ::<br>0.5%≤C<2% | - | - |
|----------------------------------|---------|-----------------------------|-------------------------|------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|---|---|

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

This product does not contain candidate substances of very high concern at a concentration ≥ 0.1% (UK REACH Article 59)

**SECTION 4: First aid measures****4.1. Description of first aid measures**

|                                           |                                                                                                                                                                                                                                                           |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>General advice</b>                     | Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.                                                                                                                                                         |
| <b>Inhalation</b>                         | Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical attention immediately. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur. Get immediate medical attention.     |
| <b>Eye contact</b>                        | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get immediate medical attention. |
| <b>Skin contact</b>                       | Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get immediate medical attention.                                                                                                                    |
| <b>Ingestion</b>                          | Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Get immediate medical attention.                                                                                                                              |
| <b>Self-protection of the first aider</b> | Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).                                                                                                                                                             |

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

|                 |                                         |
|-----------------|-----------------------------------------|
| <b>Symptoms</b> | Burning sensation.                      |
| <b>Eyes</b>     | Burning sensation. Causes severe burns. |
| <b>Dermal</b>   | Burning sensation. Causes severe burns. |

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

|                        |                        |
|------------------------|------------------------|
| <b>Note to doctors</b> | Treat symptomatically. |
|------------------------|------------------------|

**SECTION 5: Firefighting measures****5.1. Extinguishing media**

|                                       |                                                                        |
|---------------------------------------|------------------------------------------------------------------------|
| <b>Suitable Extinguishing Media</b>   | Dry chemical, CO <sub>2</sub> , alcohol-resistant foam or water spray. |
| <b>Large Fire</b>                     | CAUTION: Use of water spray when fighting fire may be inefficient.     |
| <b>Unsuitable extinguishing media</b> | Do not scatter spilled material with high pressure water streams.      |

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

**Specific hazards arising from the chemical** The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapours.

**Hazardous combustion products** Carbon oxides. Chlorine.

**5.3. Advice for firefighters**

**Special protective equipment and precautions for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Attention! Corrosive material.

**Other information** Refer to protective measures listed in Sections 7 and 8.

**For emergency responders** Use personal protection recommended in Section 8.

**6.2. Environmental precautions**

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Should not be released into the environment. Do not allow to enter into soil/subsoil. Prevent product from entering drains.

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

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Take up mechanically, placing in appropriate containers for disposal.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

**6.4. Reference to other sections**

**Reference to other sections** See section 8 for more information. See section 13 for more information.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

**Advice on safe handling** Avoid contact with skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Take off contaminated clothing and wash it before reuse.

**General hygiene considerations** Wear suitable gloves and eye/face protection. Avoid contact with skin, eyes or clothing. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Wash hands before breaks and immediately after handling the product.

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

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from moisture. Store away from other materials.

**Packaging materials** Store in corrosion resistant container with a resistant inner liner. Corrosive to metals.

### 7.3. Specific end use(s)

#### Specific use(s)

See section 1 for more information.

**Risk Management Methods (RMM)** The information required is contained in this Safety Data Sheet.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure Limits

| Chemical name                 | United Kingdom            |
|-------------------------------|---------------------------|
| SODIUM HYDROXIDE<br>1310-73-2 | STEL: 2 mg/m <sup>3</sup> |

**Biological occupational exposure limits** This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

#### Derived No Effect Level (DNEL) - Workers

| Chemical name                                                 | Oral | Dermal                                     | Inhalation                   |
|---------------------------------------------------------------|------|--------------------------------------------|------------------------------|
| SODIUM HYPOCHLORITE<br>SOLUTION, ... % Cl ACTIVE<br>7681-52-9 |      | 0.5 % in mixture (weight basis)<br>[5] [6] | 3.1 mg/m <sup>3</sup> [7]    |
| SODIUM CARBONATE<br>497-19-8                                  |      |                                            | 10 mg/m <sup>3</sup> [5] [6] |
| SODIUM HYDROXIDE<br>1310-73-2                                 |      |                                            | 1 mg/m <sup>3</sup> [5] [6]  |

[5] Local health effects.

[6] Long term.

[7] Short term.

#### Derived No Effect Level (DNEL) - General Public

| Chemical name                                                 | Oral                      | Dermal                                     | Inhalation                  |
|---------------------------------------------------------------|---------------------------|--------------------------------------------|-----------------------------|
| SODIUM HYPOCHLORITE<br>SOLUTION, ... % Cl ACTIVE<br>7681-52-9 | 0.26 mg/kg bw/day [4] [6] | 0.5 % in mixture (weight basis)<br>[5] [6] | 3.1 mg/m <sup>3</sup> [7]   |
| SODIUM CARBONATE<br>497-19-8                                  |                           |                                            | 5 mg/m <sup>3</sup> [5] [6] |
| SODIUM HYDROXIDE<br>1310-73-2                                 |                           |                                            | 1 mg/m <sup>3</sup> [5] [6] |

[4] Systemic health effects.

[5] Local health effects.

[6] Long term.

[7] Short term.

#### Predicted No Effect Concentration (PNEC)

| Chemical name                                                    | Freshwater | Freshwater<br>(intermittent release) | Marine water | Marine water<br>(intermittent release) | Air |
|------------------------------------------------------------------|------------|--------------------------------------|--------------|----------------------------------------|-----|
| SODIUM HYPOCHLORITE<br>SOLUTION, ... % Cl<br>ACTIVE<br>7681-52-9 | 0.21 µg/L  | 0.26 µg/L                            | 0.042 µg/L   |                                        |     |

| Chemical name                                                    | Freshwater<br>sediment | Marine sediment | Sewage treatment | Soil | Food chain |
|------------------------------------------------------------------|------------------------|-----------------|------------------|------|------------|
| SODIUM HYPOCHLORITE<br>SOLUTION, ... % Cl<br>ACTIVE<br>7681-52-9 | 0.00021 mg/l           | 0.000042 mg/l   | 4.69 mg/L        |      | 0.03 mg/l  |

## 8.2. Exposure controls

**Engineering controls** No information available.

### Personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles). Use eye protection according to EN 166.

**Hand protection** Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves. Gloves must conform to standard EN 374.

| Gloves              |                                                           |                 |                    |
|---------------------|-----------------------------------------------------------|-----------------|--------------------|
| Duration of contact | PPE - Glove material                                      | Glove thickness | Break through time |
| Short term          | Neoprene gloves Nitrile rubber<br>Rubber (natural, latex) | 0.50 mm         | 480 minutes        |

**Skin and body protection** Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron.

**Respiratory protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**General hygiene considerations** Wear suitable gloves and eye/face protection. Avoid contact with skin, eyes or clothing. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Wash hands before breaks and immediately after handling the product.

## SECTION 9: Physical and chemical properties

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

**Physical state** Liquid  
**Appearance** Liquid  
**Colour** green light To yellow  
**Odour** Chlorine.  
**Odour threshold** No information available

| <u>Property</u>                         | <u>Values</u>            | <u>Remarks • Method</u>    |
|-----------------------------------------|--------------------------|----------------------------|
| Melting point / freezing point          | -26 °C                   |                            |
| Initial boiling point and boiling range |                          | No information available.  |
| Flammability                            |                          | No information available.  |
| Flammability Limit in Air               |                          | No information available.  |
| Upper flammability or explosive limits  |                          |                            |
| Lower flammability or explosive limits  |                          |                            |
| Flash point                             | > 100 - °C               | Pensky-Martens closed cup. |
| Autoignition temperature                |                          | No information available.  |
| Decomposition temperature               |                          | No information available.  |
| pH                                      | 12.5                     |                            |
| pH (as aqueous solution)                |                          | No information available.  |
| Kinematic viscosity                     |                          | No information available.  |
| Dynamic viscosity                       | 13.0 cP                  | @ 21.0 °C.                 |
| Water solubility                        | Miscible with water      |                            |
| Solubility(ies)                         |                          | No information available.  |
| Partition coefficient                   |                          | No information available.  |
| Vapour pressure                         | 18 mm Hg                 | @ 21.0 °C.                 |
| Relative density                        | 1.21                     |                            |
| Bulk density                            |                          | No information available   |
| Liquid Density                          | No information available | No information available   |
| Relative vapour density                 | 1                        |                            |
| Particle characteristics                |                          | No information available.  |
| Particle Size                           | No information available |                            |
| Particle Size Distribution              | No information available |                            |
| Explosive properties                    | No information available |                            |
| Oxidising properties                    | No information available |                            |

9.2. Other information < 1 (diethyl ether = 1)

## **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

Reactivity Stable under recommended storage conditions.

### 10.2. Chemical stability

Stability Stable under normal conditions.

#### Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

### 10.4. Conditions to avoid

Conditions to avoid Extremes of temperature and direct sunlight. Excessive heat.

### 10.5. Incompatible materials

Incompatible materials Strong acids. Strong bases. Strong oxidising agents. Metals.

### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Carbon oxides. Chlorine.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Information on likely routes of exposure

##### Product Information

|                     |                                                                                      |
|---------------------|--------------------------------------------------------------------------------------|
| <b>Inhalation</b>   | Inhalation of mists can cause corrosive action on mucous membranes.                  |
| <b>Eye contact</b>  | Causes severe burns.                                                                 |
| <b>Skin contact</b> | Causes severe burns.                                                                 |
| <b>Ingestion</b>    | Causes corrosive burns of the mouth, gullet and gastrointestinal tract if swallowed. |

#### Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** Redness. Burning. May cause blindness. Coughing and/ or wheezing.

#### Acute toxicity

##### Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document

##### Component Information

| Chemical name                                 | Oral LD50            | Dermal LD50              | Inhalation LC50                      |
|-----------------------------------------------|----------------------|--------------------------|--------------------------------------|
| SODIUM HYPOCHLORITE SOLUTION, ... % Cl ACTIVE | = 8.91 g/kg ( Rat )  | > 20000 mg/kg ( Rabbit ) | > 10.5 mg/L ( Rat ) 1 h              |
| SODIUM CARBONATE                              | = 2800 mg/kg ( Rat ) | > 2000 mg/kg ( Rabbit )  | = 2300 mg/m <sup>3</sup> ( Rat ) 2 h |
| SODIUM HYDROXIDE                              | > 2000 mg/kg ( Rat ) | = 1350 mg/kg ( Rabbit )  | -                                    |

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

|                                          |                           |
|------------------------------------------|---------------------------|
| <b>Skin corrosion/irritation</b>         | Causes severe burns.      |
| <b>Serious eye damage/eye irritation</b> | Causes severe burns.      |
| <b>Respiratory or skin sensitisation</b> | No information available. |
| <b>Germ cell mutagenicity</b>            | No information available. |

##### Component Information SODIUM CARBONATE (497-19-8)

| Method                                             | Species | Results  |
|----------------------------------------------------|---------|----------|
| Ames Test                                          |         | Negative |
| OECD Test No. 471: Bacterial Reverse Mutation Test |         | Negative |



**Carcinogenicity** 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.

**Other adverse effects** No information available.

## SECTION 12: Ecological information

### 12.1. Toxicity

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

#### Unknown aquatic toxicity

##### SODIUM CARBONATE (497-19-8)

| Method                                                                        | Species               | Endpoint type | Effective dose   | Exposure time | Results |
|-------------------------------------------------------------------------------|-----------------------|---------------|------------------|---------------|---------|
|                                                                               | Fish                  | LC50          | 300 mg/L         | 96 hours      |         |
|                                                                               | aquatic invertebrates | EC50          | > 200 - 227 mg/L | 48 hours      |         |
| OECD Test No. 201: Freshwater Algae and Cyanobacteria, Growth Inhibition Test | Algae                 | EC50          | 137 mg/L         | 5 days        |         |

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

| Method | Species       | Endpoint type | Effective dose | Exposure time | Results |
|--------|---------------|---------------|----------------|---------------|---------|
|        | Fish          | LC50          | 35-189 mg/L    | 96 hours      |         |
|        | Daphnia magna | EC50          | 40.4 mg/L      | 48 hours      |         |

| Chemical name                                 | Algae/aquatic plants | Fish                                                                                                                                                                                                                                                                                | Toxicity to microorganisms | Crustacea                                    |
|-----------------------------------------------|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|----------------------------------------------|
| SODIUM HYPOCHLORITE SOLUTION, ... % Cl ACTIVE | -                    | LC50: 0.06 - 0.11mg/L (96h, Pimephales promelas)<br>LC50: 4.5 - 7.6mg/L (96h, Pimephales promelas)<br>LC50: 0.4 - 0.8mg/L (96h, Lepomis macrochirus)<br>LC50: 0.28 - 1mg/L (96h, Lepomis macrochirus)<br>LC50: 0.05 - 0.771mg/L (96h, Oncorhynchus mykiss)<br>LC50: 0.03 - 0.19mg/L | -                          | EC50: 0.033 - 0.044mg/L (48h, Daphnia magna) |

|  |  |                                                                                   |  |  |
|--|--|-----------------------------------------------------------------------------------|--|--|
|  |  | (96h, Oncorhynchus mykiss)<br>LC50: 0.18 - 0.22mg/L<br>(96h, Oncorhynchus mykiss) |  |  |
|--|--|-----------------------------------------------------------------------------------|--|--|

**12.2. Persistence and degradability**

**Persistence and degradability** No information available.

**12.3. Bioaccumulative potential**

**Bioaccumulation** No information available.

**12.4. Mobility in soil**

**Mobility in soil** Insoluble.

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

**PBT and vPvB assessment** The product does not contain any substance(s) classified as PBT or vPvB.

| Chemical name                                 | PBT and vPvB assessment         |
|-----------------------------------------------|---------------------------------|
| SODIUM HYPOCHLORITE SOLUTION, ... % CI ACTIVE | The substance is not PBT / vPvB |
| SODIUM CARBONATE                              | The substance is not PBT / vPvB |
| SODIUM HYDROXIDE                              | The substance is not PBT / vPvB |

**12.6. Other adverse effects**

No information available.

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

**Waste from residues/unused products** Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

**SECTION 14: Transport information****IATA**

**14.1 UN number or ID number** UN1791  
**14.2 UN proper shipping name** HYPOCHLORITE SOLUTION  
**14.3 Transport hazard class(es)** 8  
**14.4 Packing group** II  
**14.5 Environmental hazards** Yes  
**14.6 Special precautions for user**  
**Special Provisions** A3, A803  
**ERG Code** 8L

**IMDG**

**14.1 UN number or ID number** UN1791  
**14.2 UN proper shipping name** HYPOCHLORITE SOLUTION (SODIUM HYPOCHLORITE SOLUTION, ... % CI ACTIVE, SODIUM HYDROXIDE)

|                                                              |                          |
|--------------------------------------------------------------|--------------------------|
| 14.3 Transport hazard class(es)                              | 8                        |
| 14.4 Packing group                                           | II                       |
| 14.5 Environmental hazards                                   | Yes                      |
| 14.6 Special precautions for user                            |                          |
| Special Provisions                                           | 274, 900                 |
| EmS-No                                                       | F-A, S-B                 |
| 14.7 Maritime transport in bulk according to IMO instruments | No information available |

**RID**

|                                   |                       |
|-----------------------------------|-----------------------|
| 14.1 UN number or ID number       | UN1791                |
| 14.2 UN proper shipping name      | HYPOCHLORITE SOLUTION |
| 14.3 Transport hazard class(es)   | 8                     |
| 14.4 Packing group                | II                    |
| 14.5 Environmental hazards        | Yes                   |
| 14.6 Special precautions for user |                       |
| Special Provisions                | 521                   |
| Classification code               | C9                    |

**ADR**

|                                   |                       |
|-----------------------------------|-----------------------|
| 14.1 UN number or ID number       | UN1791                |
| 14.2 UN proper shipping name      | HYPOCHLORITE SOLUTION |
| 14.3 Transport hazard class(es)   | 8                     |
| 14.4 Packing group                | II                    |
| 14.5 Environmental hazards        | Yes                   |
| 14.6 Special precautions for user |                       |
| Special Provisions                | 521                   |
| Classification code               | C9                    |
| Tunnel restriction code           | (E)                   |

## SECTION 15: Regulatory information

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

#### National regulations

#### Authorisations and/or restrictions on use:

This product contains one or more substances subject to restriction (UK REACH - Annex XVII).

This product does not contain substances subject to authorisation (UK REACH - Annex XIV).

| Chemical name                | Restricted substance per REACH Annex XVII | Substance subject to authorisation per REACH Annex XIV |
|------------------------------|-------------------------------------------|--------------------------------------------------------|
| SODIUM HYDROXIDE - 1310-73-2 | 75                                        | -                                                      |

#### Persistent Organic Pollutants

Not applicable

#### Export Notification requirements

Not applicable

#### Dangerous substance category per COMAH Regulations 2015 (as amended)

E1 - Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1

#### Named dangerous substances per COMAH Regulations 2015 (as amended)

Not applicable

#### The Ozone-Depleting Substances Regulations 2015

Not applicable

#### The Biocidal Products Regulations 2001 (as amended)

Not applicable

**The Water Environment (Water Framework Directive) (England and Wales) Regulations 2017 (as amended)**

Not applicable

**Poisons Act 1972 (Explosive Precursors) Regulations (as Amended)**

| Chemical name    | Poisons and Explosive Precursors                    |
|------------------|-----------------------------------------------------|
| SODIUM HYDROXIDE | Poison, Reportable 12 % of total caustic alkalinity |

**International Inventories**

|                      |                                                  |
|----------------------|--------------------------------------------------|
| <b>TSCA</b>          | Contact supplier for inventory compliance status |
| <b>DSL/NDL</b>       | Contact supplier for inventory compliance status |
| <b>EINECS/ELINCS</b> | Contact supplier for inventory compliance status |
| <b>ENCS</b>          | Contact supplier for inventory compliance status |
| <b>IECSC</b>         | Contact supplier for inventory compliance status |
| <b>KECI</b>          | Contact supplier for inventory compliance status |
| <b>PICCS</b>         | Contact supplier for inventory compliance status |
| <b>AIIC</b>          | Contact supplier for inventory compliance status |
| <b>NZIoC</b>         | Contact supplier for inventory compliance status |

**Legend:**

- TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AIIC** - Australian Inventory of Industrial Chemicals  
**NZIoC** - New Zealand Inventory of Chemicals

**15.2. Chemical safety assessment**

**Chemical Safety Report** No information available

**SECTION 16: Other information**

**Key or legend to abbreviations and acronyms used in the safety data sheet**

**Full text of H-Statements referred to under section 3**

- EUH031 - Contact with acids liberates toxic gas  
H290 - May be corrosive to metals  
H314 - Causes severe skin burns and eye damage  
H318 - Causes serious eye damage  
H319 - Causes serious eye irritation  
H400 - Very toxic to aquatic life  
H410 - Very toxic to aquatic life with long lasting effects

**Legend**

SVHC: Substances of Very High Concern for Authorisation:

**Legend Section 8: Exposure controls/personal protection**

|                                                                |                             |      |                                  |
|----------------------------------------------------------------|-----------------------------|------|----------------------------------|
| TWA                                                            | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
| Ceiling                                                        | Maximum limit value         | *    | Skin designation                 |
| +                                                              | Sensitisers                 |      |                                  |
| Revision Note ***Indicates updated data since last publication |                             |      |                                  |

**Classification procedure**

|                                                                 |                    |
|-----------------------------------------------------------------|--------------------|
| Classification according to Regulation (EC) No. 1272/2008 [CLP] | Method Used        |
| Acute oral toxicity                                             | Calculation method |
| Acute dermal toxicity                                           | Calculation method |
| Acute inhalation toxicity - gas                                 | Calculation method |
| Acute inhalation toxicity - vapour                              | Calculation method |
| Acute inhalation toxicity - dust/mist                           | Calculation method |
| Skin corrosion/irritation                                       | Calculation method |
| Serious eye damage/eye irritation                               | Calculation method |
| Respiratory sensitisation                                       | Calculation method |
| Skin sensitisation                                              | Calculation method |
| Mutagenicity                                                    | Calculation method |
| Carcinogenicity                                                 | Calculation method |
| Reproductive toxicity                                           | Calculation method |
| STOT - single exposure                                          | Calculation method |
| STOT - repeated exposure                                        | Calculation method |
| Acute aquatic toxicity                                          | Calculation method |
| Chronic aquatic toxicity                                        | Calculation method |
| Aspiration hazard                                               | Calculation method |
| Ozone                                                           | Calculation method |

**Key literature references and sources for data used to compile the SDS**

Agency for Toxic Substances and Disease Registry (ATSDR)  
 U.S. Environmental Protection Agency ChemView Database  
 European Food Safety Authority (EFSA)  
 European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA\_RAC)  
 European Chemicals Agency (ECHA) (ECHA\_API)  
 Environmental Protection Agency  
 Acute Exposure Guideline Level(s) (AEGL(s))  
 U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act  
 U.S. Environmental Protection Agency High Production Volume Chemicals  
 Food Research Journal  
 Hazardous Substance Database  
 International Uniform Chemical Information Database (IUCLID)  
 National Institute of Technology and Evaluation (NITE)  
 Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)  
 NIOSH (National Institute for Occupational Safety and Health)  
 National Library of Medicine's ChemID Plus (NLM CIP)  
 National Library of Medicine's PubMed database (NLM PUBMED)  
 U.S. National Toxicology Program (NTP)  
 New Zealand's Chemical Classification and Information Database (CCID)  
 Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications  
 Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme  
 Organisation for Economic Co-operation and Development Screening Information Data Set  
 World Health Organization

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This material safety data sheet complies with the requirements of UK REACH Regulations (SI 2019/758 as amended)  
 Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

**Disclaimer**

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**End of Safety Data Sheet**