



**HOLCHEM**  
**SAFETY DATA SHEET**  
**CAUSDETA 25**

According to Regulation (EC) No. 1272/2008 on Classification, Labelling and Packaging of Substances and Mixtures.

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

**1.1. Product identifier**

**Product name** CAUSDETA 25

**Product number** HLC2

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

**Identified uses** Caustic Detergent. For professional use only.

**Uses advised against** Not for direct contact with Food or Beverage stuffs. Not for oral consumption. Not for use by hand.

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

**Supplier** Holchem Laboratories Limited  
Gateway House, Pilsworth Road,  
Pilsworth Industrial Estate,  
Bury, Lancashire (UK)  
BL9 8RD

+44 (0) 1706 222288

+44 (0) 1706 221550

info@holchem.co.uk

**1.4. Emergency telephone number**

**Emergency telephone** Out of Office Hours Emergency Information:-  
For accidents and spillages involving this product that pose a threat to the environment, or human health, or require immediate first aid advice call:- +44(0) 7050 265597.  
Note:- This number will not accept order queries or calls dealing with equipment breakdowns.  
This product is registered with the NPIS. UK Environment Agency 24hour Advisory Service 0800 807060. Irish Environmental Protection Agency 1890 335599.

**SECTION 2: Hazards identification**

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

**Classification (EC/1272/2008)**

**Physical hazards** Met. Corr. 1 - H290

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

**Environmental hazards** Not Classified

**2.2. Label elements**

**Pictogram**



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|   |  |
|---|--|
| <b>Signal word</b>                            | Danger   |
| <b>Hazard statements</b>                      | H290 May be corrosive to metals.<br>H314 Causes severe skin burns and eye damage.  |
| <b>Precautionary statements</b>               | P234 Keep only in original container.<br>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.<br>P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.<br>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>P313 Get medical advice/ attention.<br>P501 Dispose of contents/ container in accordance with national regulations. |
| <b>Contains</b>                               | SODIUM HYDROXIDE, ETHYLENEDIAMINETETRAACETIC ACID TETRASODIUM SALT   |
| <b>Detergent labelling</b>                    | < 5% EDTA and salts thereof, < 5% polycarboxylates   |
| <b>Supplementary precautionary statements</b> | P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.<br>P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.<br>P405 Store locked up.   |

### 2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB. Note:- H290 May be Corrosive to Metals Classification relates to Soft Metals such as Aluminium and Copper, when used correctly this product is not expected to be corrosive to 304 and 316 Stainless Steel.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

|   |  |
|---|--|
| <b>SODIUM HYDROXIDE</b>                                 | <b>10-30%</b>                                    |
| CAS number: 1310-73-2                                   | EC number: 215-185-5                             |
|   | REACH registration number: 01-2119457892-27      |
| <b>Classification</b>                                   | <b>Classification (67/548/EEC or 1999/45/EC)</b> |
| Met. Corr. 1 - H290                                     | C;R35  |
| Skin Corr. 1A - H314                                    |  |
| Eye Dam. 1 - H318                                       |  |
| <b>ETHYLENEDIAMINETETRAACETIC ACID TETRASODIUM SALT</b> | <b>1-5%</b>                                      |
| CAS number: 64-02-8                                     | EC number: 200-573-9                             |
|   | REACH registration number: 01-2119486762-27      |
| <b>Classification</b>                                   | <b>Classification (67/548/EEC or 1999/45/EC)</b> |
| Met. Corr. 1 - H290                                     | Xn;R20,R22. Xi;R41.                              |
| 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.

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**Composition comments** To the best of our knowledge, all of the substances used in this product are being supported for the relevant application in REACH. Note:- Corrosion to Metals H290 statement refers to Soft Metals such as Aluminium or Copper, this product is not expected to corrode 304 or 316 Stainless Steel.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

|                                   |  |
|-----------------------------------|--|
| <b>General information</b>        | When it is safe to do so, remove victim immediately from source of exposure. However, consideration should be given as to whether moving the victim will cause further injury.   |
| <b>Inhalation</b>                 | Remove affected person from source of contamination. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. If breathing stops, provide artificial respiration. Get medical attention if any discomfort continues. |
| <b>Ingestion</b>                  | Do not induce vomiting. Rinse mouth thoroughly with water. Place unconscious person on the side in the recovery position and ensure breathing can take place. Get medical attention.   |
| <b>Skin contact</b>               | Remove contaminated clothing that is not stuck to the skin. Flush area with clean water. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.   |
| <b>Eye contact</b>                | Remove any contact lenses and open eyelids wide apart. Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes and get medical attention.  |
| <b>Protection of first aiders</b> | First aid personnel should wear appropriate protective equipment during any rescue.  |

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

|                            |  |
|----------------------------|--|
| <b>General information</b> | Neat product may cause chemical burns and permanent eye damage. Dilute product may cause irritation to the skin and eyes.  |
| <b>Inhalation</b>          | Inhalation of neat product is unlikely. However, inhalation of mists or vapours of diluted product may result in soreness, irritation or burns to the mouth, nose and respiratory tract.   |
| <b>Ingestion</b>           | Unlikely route of exposure without deliberate abuse. If neat chemical is ingested, chemical burning of mouth, throat and GI tract will occur. If dilute chemical is ingested, soreness of mouth, throat and GI tract may occur together with redness and blistering. |
| <b>Skin contact</b>        | May cause serious chemical burns to the skin.  |
| <b>Eye contact</b>         | May result in permanent eye damage.  |

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

|                             |  |
|-----------------------------|--|
| <b>Notes for the doctor</b> | Contains Chelating Agents and Sodium Hydroxide in Aqueous Solution. Rinse well with water to neutral pH. |
|-----------------------------|--|

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

**Suitable extinguishing media** The product is non-combustible. Use fire-extinguishing media suitable for the surrounding fire.

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

**Specific hazards** The product is non-combustible. If heated, corrosive vapours may be formed. In contact with some metals (Aluminium, Zinc and their Alloys) Hydrogen Gas is formed, which may form an explosive mixture with air. Mixing with Hypochlorite based chemicals could result in a dangerous heating of the solution and evolution of Carbon Dioxide and Oxygen.

#### 5.3. Advice for firefighters

**Protective actions during firefighting** Protective clothing and respiratory protection should be worn when tackling fires involving this product. Control run-off water by containing and keeping it out of sewers and watercourses.

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**Special protective equipment for firefighters**      Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

### SECTION 6: Accidental release measures

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

**Personal precautions**      Wear protective clothing as described in Section 8 of this safety data sheet.

#### 6.2. Environmental precautions

**Environmental precautions**      Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

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

**Methods for cleaning up**      Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers. Collect and place in suitable waste disposal containers and seal securely. For waste disposal, see Section 13. Containers with collected spillage must be properly labelled with correct contents and hazard symbol.

#### 6.4. Reference to other sections

**Reference to other sections**      See sections 8, 12 & 13

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

**Usage precautions**      Wear suitable protective equipment for prolonged exposure and/or high concentrations of vapours, spray or mist. Read and follow manufacturer's recommendations.

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

**Storage precautions**      Keep container tightly closed. Keep only in the original container. Store in a demarcated bunded area to prevent release to drains and/or watercourses. Keep above chemical's freezing (melting) point. Store away from the following materials: Acids. Store between -10 and +40 Degrees C.

#### 7.3. Specific end use(s)

**Specific end use(s)**      Detergent, refer to Product Information Sheet for full details.

**Usage description**      This product is suitable for cleaning food process plants, it is not suitable for direct food contact.

### SECTION 8: Exposure Controls/personal protection

#### 8.1. Control parameters

##### Occupational exposure limits

##### **SODIUM HYDROXIDE**

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

WEL = Workplace Exposure Limit

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### Ingredient comments

As a requirement of REACH we have considered all of the components of this formulation. We believe that Sodium Hydroxide (NaOH) is the most hazardous component of this formulation. Sodium Hydroxide is not expected to be systemically available to the body under normal handling and use conditions, therefore systemic effects of Sodium Hydroxide after Dermal or Inhalation Exposure are not expected to occur. Based on data from our raw material suppliers, we understand that if the risk management measures outlined in section 8.2 are followed, the inhalation exposure is below the DNEL of 1mg/m<sup>3</sup>. Where an exposure level is quoted, a risk assessment should consider if there is a need to monitor the atmosphere of the working environment. Results should be compared against the WEL and/or DNEL information provided. The Long Term WEL refers to total exposure of a worker to a specific substance averaged out over an 8 hour period.

The Short Term WEL refers to a single exposure of a worker to a specific substance over a 15 minute period.

If the Short Term WEL is exceeded and no Long Term Limit is set, further exposure during the working shift is not permitted. Further controls should be implemented to ensure that future exposure to the substance is reduced below the levels set before the activity is repeated/continued. Where no Short Term WEL exists, guidance from the HSE is to use a value of three times the Long Term WEL.

The WEL limits are laid down in the EH40 list as supplied by the HSE. This is taken from the Chemical Agents Directive (98/24/EC). Where a worker is exposed to levels approaching a limit, further exposure control measures should be considered to reduce exposure to the substance. DNEL and/or PNEC information is supplied by manufacturers of substances in accordance with REACH legislation (Regulation (EC) No 1907/2006), and is used to provide suitable risk reduction measures to limit exposure of the user of the substance to a non hazardous level. If the measured level of exposure by a route divided by the DNEL for the route is greater than 1, then further exposure controls should be implemented as described in section 8.2. Where new information becomes available under REACH, this will be passed on as revisions to the Safety Data Sheet.

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

|             |  |
|-------------|--|
| <b>DNEL</b> | Industry - Inhalation; Long term local effects: 1.0 mg/m <sup>3</sup><br>DNEL data for Professional users is not yet available, but it is assumed to be the same as for Industrial users.<br>Industry - Dermal; Short term local effects: 2% |
| <b>PNEC</b> | No information is available for PNEC data for Sodium Hydroxide   |

### ETHYLENEDIAMINETETRAACETIC ACID TETRASODIUM SALT (CAS: 64-02-8)

|             |   |
|-------------|---|
| <b>DNEL</b> | Professional - Inhalation; Long term systemic effects: 1.5 mg/m <sup>3</sup>  |
| <b>PNEC</b> | - Fresh water; 2.86 mg/l<br>- Marine water; 0.286 mg/l<br>- Intermittent release; 1.56 mg/l<br>- Soil; 0.937 mg/kg, mg/kg dwt<br>- STP; 55.94 mg/kg |

### 8.2. Exposure controls

#### Protective equipment



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|  |   |
|--|---|
| <b>Appropriate engineering controls</b>    | As this product contains ingredients with exposure limits, process enclosures, local exhaust ventilation or other engineering controls should be used to keep worker exposure below any statutory or recommended limits, if use generates dust, fumes, gas, vapour or mist.   |
| <b>Personal protection</b>                 | The PPE indicated above is not a COSHH assessment. It represents PPE that should be considered during the manufacture, distribution, use and final disposal stages of this product's life cycle. It is the responsibility of employers to conduct a COSHH/risk assessment to determine appropriate PPE levels. The information given below should be used to support this assessment. Where possible replace manual processes with automated or closed processes to minimise contact with the product.                                  |
| <b>Eye/face protection</b>                 | The following protection should be worn: Full face visor or shield. Refer to EN Standard 166 to select appropriate level of protection.   |
| <b>Hand protection</b>                     | Impervious Chemical Resistant Gloves of Butyl Rubber, PVC, Polychloroprene with a natural latex liner, all with a minimum material thickness 0.5mm and a breakthrough time of >480mins. Alternatively Nitrile Rubber, Fluorinated Rubber, both with a minimum thickness of 0.35 - 0.4mm and a breakthrough time of >480minutes. Refer to Standard EN 374.   |
| <b>Other skin and body protection</b>      | Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible. Reference to EN 13832 and EN 943 is useful when selecting footwear and clothing.  |
| <b>Hygiene measures</b>                    | Promptly remove non-impervious clothing that has become contaminated, provided it is not adhered to the skin. Provide eyewash station and safety shower.  |
| <b>Respiratory protection</b>              | No specific recommendation made, but respiratory protection must be used if the general level exceeds the Workplace Exposure Limit. In the case of dust or aerosol formation (eg spraying), or vapour from hot vessels, use respiratory protection with an approved filter (P2).  |
| <b>Environmental exposure controls</b>     | Do not allow the substance to contaminate surface water/ground water. See points 6, 12 & 13. Discharge of solutions into effluent systems (including municipal drains) or to surface water are expected to cause significant pH changes. Discharge of solutions should be carried out such that pH changes are minimised. Where necessary pH buffering measures should be adopted. Users of this product should consult local drainage and permitting authorities to ensure that any restrictions or discharge consents are adhered to. |
| <b>General Health and Safety Measures.</b> | The above information relates to the neat product. Solutions of 3% and lower strengths would not be classified, but use of gloves and eye protection is still recommended. A full Risk Assessment should be carried out before handling any chemical(s). Risk Assessments should refer to COSHH, and any other relevant legislation or industry specific guidelines governing the use of chemicals.   |

### SECTION 9: Physical and Chemical Properties

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

|  |                                     |
|--|-------------------------------------|
| <b>Appearance</b>                      | Clear liquid.                       |
| <b>Colour</b>                          | Colourless.                         |
| <b>Odour</b>                           | Ammoniacal                          |
| <b>Odour threshold</b>                 | Not applicable.                     |
| <b>pH</b>                              | pH (diluted solution): 12 - 13 @ 1% |
| <b>Melting point</b>                   | ~ 0°C                               |
| <b>Initial boiling point and range</b> | Not applicable.                     |
| <b>Flash point</b>                     | Not available.                      |

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|   |   |
|---|---|
| <b>Evaporation rate</b>                             | Not applicable.   |
| <b>Evaporation factor</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 applicable.   |
| <b>Vapour density</b>                               | Not applicable.   |
| <b>Relative density</b>                             | 1.28 @ 20°C   |
| <b>Bulk density</b>                                 | Not applicable.   |
| <b>Solubility(ies)</b>                              | Soluble in water.   |
| <b>Partition coefficient</b>                        | Not applicable.   |
| <b>Auto-ignition temperature</b>                    | Not applicable.   |
| <b>Decomposition Temperature</b>                    | Not applicable.   |
| <b>Viscosity</b>                                    | Not determined.   |
| <b>Explosive properties</b>                         | Not applicable.   |
| <b>Explosive under the influence of a flame</b>     | Not considered to be explosive.                             |
| <b>Oxidising properties</b>                         | Does not meet the criteria for classification as oxidising. |
| <b><u>9.2. Other information</u></b>                |   |
| <b>Refractive index</b>                             | Not applicable.   |
| <b>Particle size</b>                                | Not applicable.   |
| <b>Molecular weight</b>                             | Not applicable.   |
| <b>Volatility</b>                                   | Not applicable.   |
| <b>Saturation concentration</b>                     | Not applicable.   |
| <b>Critical temperature</b>                         | Not applicable.   |
| <b>Volatile organic compound</b>                    | Not applicable.   |
| <b>Explosive Properties</b>                         | Not Classified as Explosive                                 |
| <b>Storage Temperature Range</b>                    | -10 to +40 degrees C  |

|   |
|---|
| <b>SECTION 10: Stability and reactivity</b> |
|---|

**10.1. Reactivity**

**Reactivity** Not expected to react when correctly stored and used. Mixing with other chemicals may produce unexpected reactions. Reactions with the following materials may generate heat: Strong acids.

**10.2. Chemical stability**

**Stability** Stable at normal ambient temperatures and when used as recommended. - See note 10.6.

**10.3. Possibility of hazardous reactions**

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**Possibility of hazardous reactions** Refer to section 10.1. Do not mix with Hypochlorite based chemicals, this could result in a dangerous heating of the solution. Do not mix with acids, this will generate heat and give off corrosive vapours.

### 10.4. Conditions to avoid

**Conditions to avoid** Avoid excessive heat for prolonged periods of time.

### 10.5. Incompatible materials

**Materials to avoid** Strong acids. Reaction with Aluminium, Zinc, Tin, Copper or their alloys produces flammable Hydrogen Gas.

### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Does not decompose when used and stored as recommended. - See section 10.5.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity - oral

**ATE oral (mg/kg)** 61,919.5

#### Acute toxicity - inhalation

**ATE inhalation (dusts/mists mg/l)** 46.44

#### Respiratory sensitisation

**Respiratory sensitisation** No evidence of respiratory sensitisation for any component of this formulation.

#### Skin sensitisation

**Skin sensitisation** No evidence of skin sensitisation for any component of this formulation.

#### Carcinogenicity

**Carcinogenicity** The components of this formulation are corrosive to skin and the respiratory tract, but will not be systemically available in the body under normal conditions of handling. As a consequence it is not expected to cause cancer.

#### Reproductive toxicity

**Reproductive toxicity - fertility** The components of this formulation are corrosive to the skin and respiratory tract, but will not be systemically available in the body under normal conditions of use and handling. As a consequence it is not expected to be toxic to the reproductive system or the developing foetus.

#### General information

Toxic effect linked with corrosive properties. See section 4.2.

#### Inhalation

Unlikely route of exposure. Inhalation of sprayed droplets may result in soreness of the throat, mouth and nose. - See section 4.2.

#### Ingestion

May cause chemical burns in mouth, oesophagus and stomach.

#### Skin contact

Causes severe burns.

#### Eye contact

Risk of serious damage to eyes. May cause permanent eye injury.

## SECTION 12: Ecological Information



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**Ecotoxicity** This product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. Normal use is unlikely to pose a risk to the environment.

### 12.1. Toxicity

#### **Acute toxicity - fish**

This mixture is not classified as toxic to aquatic organisms.

Note:- pH values greater than 10.5 may be fatal to fish and other aquatic organisms, there may also be damage to aquatic plants.

Normal use of the diluted product is not expected to pose any risk.

See note 12.0

### 12.2. Persistence and degradability

**Persistence and degradability** The surfactant(s) used in this preparation complies (comply) with the biodegradability criteria as laid down in the European Detergents Regulation No 648/2004 as amended.

### 12.3. Bioaccumulative potential

**Bioaccumulative potential** Not expected to bioaccumulate.

**Partition coefficient** Not applicable.

### 12.4. Mobility in soil

**Mobility** The product contains substances which are water soluble and may spread in water systems.

### 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

**General information** When handling waste, the safety precautions applying to handling of the product should be considered. Do not mix with other chemicals.

**Disposal methods** Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. |

Consideration should be given to water authority effluent permits.

## SECTION 14: Transport information

### 14.1. UN number

UN No. (ADR/RID) 1824

UN No. (IMDG) 1824

UN No. (ICAO) 1824

### 14.2. UN proper shipping name

**Proper shipping name (ADR/RID)** SODIUM HYDROXIDE SOLUTION

**Proper shipping name (IMDG)** SODIUM HYDROXIDE SOLUTION

**Proper shipping name (ICAO)** SODIUM HYDROXIDE SOLUTION

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Proper shipping name (ADN) SODIUM HYDROXIDE SOLUTION

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

|                     |   |
|---------------------|---|
| ADR/RID class       | 8 |
| ADR/RID label       | 8 |
| IMDG class          | 8 |
| ICAO class/division | 8 |

**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

No.

**14.6. Special precautions for user**

|  |      |
|--|------|
| EmS                                    | 8-06 |
| Emergency Action Code                  | 2R   |
| Hazard Identification Number (ADR/RID) | 80   |

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

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78  
and the IBC Code**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

|                |   |
|----------------|---|
| EU legislation | European Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging of Substances and Mixtures.<br>This replaces Directive 67/548/EEC - Classification, Packaging and Labelling of Dangerous Substances and Regulation (EC) No. 453/2010 relating to the Classification, Packaging and Labelling of Dangerous Preparations. Also considered is the REACH Regulation (EC) No.1907/2006. |
|----------------|---|

**15.2. Chemical safety assessment**

No chemical safety assessment has been carried out.

**SECTION 16: Other information**

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|   |  |
|---|--|
| <b>Abbreviations and acronyms used in the safety data sheet</b> | (EC) No. 1272/2008 : EU Regulation on Classification, Labelling and Packaging of Substances and Mixtures.<br>NPIS - National Poisons Information Service.<br>vPvB - Very Persistent, Very bioaccumulative.<br>PBT - Persistent, Bioaccumulative & Toxic.<br>REACH - Registration, Evaluation, Authorisation & restriction of CHemicals (Regulation EC 1907/2006).<br>DNEL - Derived No Effect Limit.<br>PNEC - Predicted No Effect Concentration.<br>COSHH - Control of Substances Hazardous to Health.<br>Industry - Refers in section 8 to application of the substance in an industrial process.<br>Professional - Refers in section 8 to application/use of the preparation/product in a skilled trade premises. |
| <b>General information</b>                                      | This document is a Safety Data Sheet, NOT a CoSHH assessment. It is the customer's responsibility to conduct a full CoSHH assessment, taking into account the information held within this document along with other local factors considered in a risk assessment. The Risk and Hazard statements listed below are the full text of abbreviations used in this document. They are not the final classification, for this refer to section 2.  |
| <b>Revision comments</b>  | Review of MSDS with no change in classification  |
| <b>Revision date</b>  | 22/02/2016   |
| <b>Risk phrases in full</b>                                     | R35 Causes severe burns.   |
| <b>Hazard statements in full</b>                                | H290 May be corrosive to metals.<br>H314 Causes severe skin burns and eye damage.<br>H318 Causes serious eye damage.   |
| <b>REACH extended MSDS comments</b>                             | REACH requires that persons handling chemicals should take the necessary risk management measures, in accordance with assessments from manufacturers and importers of chemical substances. The relevant recommendations must be passed along the supply chain. These assessments are generally reported in Exposure Scenarios. Where Exposure Scenarios have been provided for substances used in this product, the relevant information is incorporated into the safety data sheet.   |

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.