



## SAFETY DATA SHEET OPTIMUM SANITISER

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

#### 1.1. Product identifier

**Product name** OPTIMUM SANITISER

**Product number** OPTK2

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

**Identified uses** Disinfectant. For professional use only. Disinfectants must be used responsibly in line with manufacturer's instructions.

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

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

**Supplier** UK - Holchem Laboratories Ltd. Gateway House, Pilsworth Road, Bury, BL9 8RD

Tel : +44 (0) 1706 222288; e-mail info@holchem.co.uk

EU - Kersia Deutschland GmbH, Marie-Curie-Straße 23  
53332 Bornheim - Sechtem

#### 1.4. Emergency telephone number

**Emergency telephone** 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) 1865 407333.  
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 (This is a Lo Call Number)

### 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. 1B - H314 Eye Dam. 1 - H318 STOT RE 2 - H373

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

#### 2.2. Label elements

##### Hazard pictograms



**Signal word**

Danger

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<b>Hazard statements</b>	H290 May be corrosive to metals. H314 Causes severe skin burns and eye damage. H373 May cause damage to organs (Respiratory tract) through prolonged or repeated exposure if inhaled. 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 gloves, eye and 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. P313 Get medical advice/ attention. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P501 Dispose of contents/ container in accordance with national regulations.
<b>Contains</b>	ETHYLENEDIAMINETETRAACETIC ACID TETRASODIUM SALT, ALKYL BENZYL DIMETHYL AMMONIUM CHLORIDE, ALCOHOL ETHOXYLATE
<b>Detergent labelling</b>	5 - < 15% cationic surfactants, 5 - < 15% EDTA and salts thereof, < 5% non-ionic surfactants
<b>Supplementary precautionary statements</b>	P404 Store in a closed container.

### 2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB. Note H290 classification relates to the Neat Undiluted Product. Note: H373 Relates only to neat product as delivered, it does not apply to use solutions. This product is not volatile and not intended for consumption, through normal use H373 is not expected to be a risk, but should be considered as part of a COSHH assessment

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

<b>ETHYLENEDIAMINETETRAACETIC ACID TETRASODIUM SALT</b>	<b>10 - &lt;20%</b>
CAS number: 64-02-8	EC number: 200-573-9
	REACH registration number: 01-2119486762-27
<b>Classification</b>	
Met. Corr. 1 - H290	
Acute Tox. 4 - H302	
Acute Tox. 4 - H332	
Eye Dam. 1 - H318	
STOT RE 2 - H373	

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<b>ALKYL BENZYL DIMETHYL AMMONIUM CHLORIDE</b>			<b>5-10%</b>
CAS number: 68424-85-1	EC number: 270-325-2		
M factor (Acute) = 10	M factor (Chronic) = 1		
<b>Classification</b>			
Met. Corr. 1 - H290			
Acute Tox. 4 - H302			
Skin Corr. 1B - H314			
Eye Dam. 1 - H318			
Aquatic Acute 1 - H400			
Aquatic Chronic 1 - H410			
<b>ALCOHOL ETHOXYLATE</b>			<b>1-5%</b>
CAS number: 68131-39-5	EC number: 500-195-7	REACH registration number: 01-2119488720-33-XXXX	
M factor (Acute) = 1			
<b>Classification</b>			
Acute Tox. 4 - H302			
Eye Dam. 1 - H318			
Aquatic Acute 1 - H400			
Aquatic Chronic 3 - H412			
<b>SODIUM HYDROXIDE</b>			<b>&lt;1%</b>
CAS number: 1310-73-2	EC number: 215-185-5	REACH registration number: 01-2119457892-27	
<b>Classification</b>			
Met. Corr. 1 - H290			
Skin Corr. 1A - H314			
Eye Dam. 1 - H318			

The full text for all hazard statements is displayed in Section 16.

**Composition comments** The Biocidally Active components of this product are supported in the Biocidal Products Regulation. Note:- H290 "May be Corrosive to Metals" refers to the neat product.

#### 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. For immediate First Aid advice in the UK, dial 111.
<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.

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**Eye contact** 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.

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

**General information** Neat product may cause chemical burns and permanent eye damage. Dilute product may cause irritation to the skin and eyes.

**Inhalation** Unlikely route of exposure. Inhalation of sprayed droplets may result in soreness of the throat, mouth and nose.

**Ingestion** 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 some soreness of the mouth, throat and GI tract may occur.

**Skin contact** Prolonged or repeated contact with skin may cause irritation, redness and dermatitis. Chemical burns are possible after prolonged contact. Use solutions may cause mild irritation, especially to open cuts and abrasions.

**Eye contact** May result in permanent eye damage.

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

**Notes for the doctor** Rinse well with water to neutral pH. Contains a blend of Chelating agents, Surfactants and Cationic Biocides in aqueous solution.

## 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** In contact with some metals (Aluminium, Zinc and their Alloys) Hydrogen Gas is formed, which may form an explosive mixture with air. Note - Comment refers to neat product. Mixing with Hypochlorite based chemicals could result in a dangerous heating of the solution and evolution of Carbon Dioxide and Oxygen. Note - Comment refers to neat product.

### 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.

**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. Avoid or minimise the creation of any environmental contamination.

### 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.

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### 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 banded area to prevent release to drains and/or watercourses. Store between - 5 and 40 Degrees C Store away from:- Acids. Chlorinated materials

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

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

**Usage description** This product is suitable for use in food preparation areas, but is not designed 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.

##### Ingredient comments

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. 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. Predicted No Effect Concentration for environmental exposure is given below. Where new information becomes available under REACH, this will be passed on as revisions to the Safety Data Sheet.

#### 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 - marine water; 0.286 mg/l - Intermittent release; 1.56 mg/l - Soil; 0.937 mg/kg, mg/kg dwt - STP; 55.94 mg/kg

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

<b>DNEL</b>	Industry - Inhalation; Long term local effects: 1.0 mg/m <sup>3</sup> DNEL data for Professional users is not yet available, but it is assumed to be the same as for Industrial users. Industry - Dermal; Short term local effects: 2%
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### PNEC

No information is available for PNEC data for Sodium Hydroxide

### 8.2. Exposure controls

#### Protective equipment



#### Appropriate engineering controls

Provide adequate general and local exhaust ventilation.

#### Personal protection

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.

#### Eye/face protection

If risk of splashing, wear safety goggles or face shield. Refer to EN Standard 166 to select appropriate level of protection.

#### Hand protection

Nitrile Rubber of at least 0.4mm coating thickness with a breakthrough time of >240min. Refer to Standard EN 374 and EN 16523

#### Other skin and body protection

Wear suitable protective clothing as protection against splashing or contamination. Reference to EN 13832 and EN 943 is useful when selecting footwear and clothing.

#### Hygiene measures

Promptly remove non-impervious clothing that has become contaminated, provided it is not adhered to the skin. Wash contaminated clothing before reuse.

#### Respiratory protection

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).

#### Environmental exposure controls

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.

#### General Health and Safety Measures.

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. The above requirements refer to the neat product. A 5% solution of this product would not be classified. However, we would recommend eye protection if there is a risk of splashing, also use of gloves. Alkyl Benzyl Dimethyl Ammonium Chloride has been linked to skin sensitisation by prolonged or repeated exposure. Use of gloves is recommended.

### SECTION 9: Physical and chemical properties

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

Appearance	Clear liquid.
Colour	Blue.
Odour	Detergent.
Odour threshold	Not applicable.

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<b>pH</b>	pH (concentrated solution): Approximately 13 - 13.5 pH (diluted solution): 10.5 - 11.5 @1%
<b>Melting point</b>	<0°C
<b>Initial boiling point and range</b>	95 - 110 degrees C
<b>Flash point</b>	Not applicable. Contains no Flammable Components
<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>Vapour pressure</b>	Not applicable.
<b>Vapour density</b>	Not applicable.
<b>Relative density</b>	1.08 @ 20 degrees C
<b>Bulk density</b>	Not applicable.
<b>Solubility(ies)</b>	Soluble in water.
<b>Partition coefficient</b>	Not applicable. Not technically practical for mixtures.
<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>	Not applicable. Contains no Oxidising Components.
<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>	-5 to +40 Degrees C

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

**Reactivity** Not expected to react when correctly stored and used. Mixing with other chemicals may produce unexpected reactions.

#### 10.2. Chemical stability

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

### 10.3. Possibility of hazardous reactions

**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. In contact with soft metals such as Aluminium, Hydrogen gas may be produced - Comments refers to the neat product.

### 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. Do not mix with Hypochlorite based chemicals this could result in a hazardous reaction producing heat, CO<sub>2</sub> and O<sub>2</sub>.

### 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)** 6,254.18

#### Acute toxicity - dermal

**ATE dermal (mg/kg)** 15,600.0

#### Acute toxicity - inhalation

**ATE inhalation (dusts/mists mg/l)** 13.16

#### Skin sensitisation

**Skin sensitisation** Alkyl Benzyl Dimethyl Ammonium Chloride has been linked to skin sensitisation by prolonged or repeated exposure. Use of gloves is recommended.

#### Carcinogenicity

**Carcinogenicity** The components of this formulation 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 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 developing foetus.

#### General information

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

Will cause severe irritation to mouth, throat and GI-Tract.

#### Skin contact

Neat product may cause reddening of skin and with prolonged contact 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 classified as very toxic to aquatic life, this refers to the neat product. Normal use is not expected to pose a risk.

### 12.1. Toxicity

**Toxicity** Normal use is not expected to pose an ecological risk.

### Acute aquatic toxicity

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

To the best of our current knowledge, the main ecotoxicological effect is due to the Alky Benzyl Dimethyl Ammonium Chloride, for which :-  
 The EC50/48h value for Daphnia is 0.03mg/l.  
 The EC50/96h value for Selenastrum capricornutum is 0.06mg/l.  
 The LC50/96h value for Rainbow Trout is 1.7 mg/l.  
 Behaviour in sewage processing plants - EC20 / 0.5hr = 10mg/l (Activated Sludge).  
 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 diluted product is unlikely to pose a 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. Not technically practical for mixtures.

### 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** 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. Small volumes of use solution can be disposed of to sewers.

## SECTION 14: Transport information

### 14.1. UN number

UN No. (ADR/RID)	1903
UN No. (IMDG)	1903
UN No. (ICAO)	1903
UN No. (ADN)	1903

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### 14.2. UN proper shipping name

<b>Proper shipping name (ADR/RID)</b>	DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (CONTAINS ETHYLENEDIAMINETETRAACETIC ACID TETRASODIUM SALT, ALKYL BENZYL DIMETHYL AMMONIUM CHLORIDE)
<b>Proper shipping name (IMDG)</b>	DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (CONTAINS ETHYLENEDIAMINETETRAACETIC ACID TETRASODIUM SALT, ALKYL BENZYL DIMETHYL AMMONIUM CHLORIDE, ALCOHOL ETHOXYLATE)
<b>Proper shipping name (ICAO)</b>	DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (CONTAINS ETHYLENEDIAMINETETRAACETIC ACID TETRASODIUM SALT, ALKYL BENZYL DIMETHYL AMMONIUM CHLORIDE)
<b>Proper shipping name (ADN)</b>	DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (CONTAINS ETHYLENEDIAMINETETRAACETIC ACID TETRASODIUM SALT, ALKYL BENZYL DIMETHYL AMMONIUM CHLORIDE)

### 14.3. Transport hazard class(es)

<b>ADR/RID class</b>	8
<b>ADR/RID classification code</b>	C9
<b>ADR/RID label</b>	8
<b>IMDG class</b>	8
<b>ICAO class/division</b>	8
<b>ADN class</b>	8

#### Transport labels



### 14.4. Packing group

<b>ADR/RID packing group</b>	II
<b>IMDG packing group</b>	II
<b>ICAO packing group</b>	II
<b>ADN packing group</b>	II

### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



### 14.6. Special precautions for user

<b>EmS</b>	F-A, S-B
<b>ADR transport category</b>	2
<b>Hazard Identification Number (ADR/RID)</b>	80
<b>Tunnel restriction code</b>	(E)

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

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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

<b>National regulations</b>	UK Adoption and Implementation of the UN Globally Harmonised System (GHS) on Classification and Labelling of Chemicals (GB CLP) and considers UK National REACH legislation. Also UK Biocides Regulations.
<b>EU legislation</b>	European Regulation (EC) No 1272/2008 (as amended) on Classification, Labelling and Packaging of Substances and Mixtures. Also considered is the REACH Regulation (EC) No.1907/2006 (as amended). REGULATION (EU) No 528/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 22 May 2012 concerning the making available on the market and use of biocidal products. [BPR]

#### 15.2. Chemical safety assessment

**Pcs Information** An Aqueous suspension concentrate containing 5% w/w Benzylcoco alkyldimethyl chlorides. Authorisation Holder Holchem Laboratories Ltd.

**Pcs Number** PCS No:-94465

No chemical safety assessment has been carried out.

### SECTION 16: Other information

<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. NPIS - National Poisons Information Service. vPvB - Very Persistent, Very bioaccumulative. PBT - Persistent, Bioaccumulative & Toxic. REACH - Registration, Evaluation, Authorisation & restriction of CHEMICALS (Regulation EC 1907/2006). DNEL - Derived No Effect Limit. PNEC - Predicted No Effect Concentration. COSHH - Control of Substances Hazardous to Health. Industry - Refers in section 8 to application of the substance in an industrial process. Professional - Refers in section 8 to application/use of the preparation/product in a skilled trade premises.
<b>General information</b>	PCS No 94465
<b>Revision comments</b>	Amendment to the emergency phone number in Section 1.4.
<b>Revision date</b>	28/10/2021

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### Hazard statements in full

H290 May be corrosive to metals.  
H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H318 Causes serious eye damage.  
H332 Harmful if inhaled.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H373 May cause damage to organs (Respiratory tract) through prolonged or repeated exposure if inhaled.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.  
H411 Toxic to aquatic life with long lasting effects.  
H412 Harmful to aquatic life with long lasting effects.

### REACH extended MSDS comments

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.

### END OF 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.