



**HOLCHEM**  
**SAFETY DATA SHEET**

**OPTIMUM MULTI PURPOSE CLEANER**

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** OPTIMUM MULTI PURPOSE CLEANER  
**Product number** OPTK1

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

**Identified uses** Detergent. For professional use only.  
**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** 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 26597.  
Note:- This number will not accept order queries or calls dealing with equipment breakdowns.  
  
Irish Environmental Protection Agency 1890 335599. UK Environment Agency 24hour Advisory Service 0800 807060. This product is registered with the NPIS.

**SECTION 2: Hazards identification**

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

**Classification**

**Physical hazards**

Not Classified

**Health hazards**

Skin Irrit. 2 - H315 Eye Dam. 1 - H318

**Environmental hazards**

Aquatic Acute 1 - H400

**2.2. Label elements**

**Pictogram**



**OPTIMUM MULTI PURPOSE CLEANER**

<b>Signal word</b>	Danger
<b>Hazard statements</b>	H315 Causes skin irritation. H400 Very toxic to aquatic life. H318 Causes serious eye damage.
<b>Precautionary statements</b>	P273 Avoid release to the environment. P280 Wear protective clothing, gloves, eye and face protection. P302+P352+P332+P313 P302+P352+P332+P313 IF ON SKIN: Wash with plenty of water: If skin irritation occurs: Get medical advice/attention. 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. P501 Dispose of contents/container in accordance with national regulations.
<b>Contains</b>	ISO TRIDECANOL ALCOHOL ETHOXYLATE
<b>Detergent labelling</b>	< 5% amphoteric surfactants, < 5% cationic surfactants, < 5% EDTA and salts thereof, < 5% non-ionic surfactants, < 5% phosphates, < 5% phosphonates
<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.

**SECTION 3: Composition/information on ingredients****3.2. Mixtures**

<b>ISO TRIDECANOL ALCOHOL ETHOXYLATE</b>	<b>1-5%</b>
CAS number: 69011-36-5 EC number: 931-138-8 REACH registration number: 02-2119552461-55-0000	
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>
Eye Dam. 1 - H318	Xi;R41.
Aquatic Chronic 3 - H412	
<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>
Acute Tox. 4 - H302	Xn;R20,R22. Xi;R41.
Acute Tox. 4 - H332	
Eye Dam. 1 - H318	
<b>ALKYL BENZYL DIMETHYL AMMONIUM CHLORIDE</b>	<b>1-5%</b>
CAS number: 68424-85-1 EC number: 270-325-2 M factor (Acute) = 10	
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>
Acute Tox. 4 - H302	Xn;R21/22. C;R34. N;R50.
Acute Tox. 4 - H312	
Skin Corr. 1B - H314	
Aquatic Acute 1 - H400	

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<b>TETRAPOTASSIUM PYROPHOSPHATE</b>		<b>1-5%</b>
CAS number: 7320-34-5 EC number: 230-785-7 REACH registration number: 01-2119489369-18-0000		
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>	
Eye Irrit. 2 - H319	Xi;R36.	
<b>BETA-ALANINE, N-(2 CARBOXYETHYL)-N-DODECYL MONO SODIUM SALT</b>		<b>1-5%</b>
CAS number: 90170-43-7 EC number: 290-476-8		
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>	
Eye Irrit. 2 - H319	Xi;R36.	

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

**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.

#### SECTION 4: First aid measures

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

###### **General information**

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.

###### **Inhalation**

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.

###### **Ingestion**

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.

###### **Skin contact**

Remove contaminated clothing that is not stuck to the skin. Flush area with clean water. Get medical attention if any discomfort continues.

###### **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 irritation to skin and eyes. Dilute chemical may result in mild irritation to skin. Contact of dilute chemical with eyes should still be treated as outlined above.

###### **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, irritation of the mouth, throat and GI tract may 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.

###### **Eye contact**

May cause irritation to the eyes. May result in permanent eye damage.

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

###### **Notes for the doctor**

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Contains Chelating Agents and Surfactants in Aqueous Solution. Rinse well with water to neutral pH.

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### SECTION 5: Firefighting measures

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#### 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. On heating irritating fumes may be formed.

#### 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.

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### SECTION 6: Accidental release measures

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#### 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. Collect and place in suitable waste disposal containers and seal securely. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Absorb in vermiculite, dry sand or earth and place into containers. For waste disposal, see Section 13.

#### 6.4. Reference to other sections

##### **Reference to other sections**

See sections 8, 12 & 13

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### SECTION 7: Handling and storage

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#### 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 only in the original container. Store in a demarcated bunded area to prevent release to drains and/or watercourses. Store away from:- Chlorinated materials Store between 0 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 use in food preparation areas, but is not designed for direct food contact.

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### SECTION 8: Exposure Controls/personal protection

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## OPTIMUM MULTI PURPOSE CLEANER

### 8.1. Control parameters

#### Occupational exposure limits

##### 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.

Where new information becomes available under REACH, this will be passed on as revisions to the Safety Data Sheet.

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.

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

DNEL	Professional - Inhalation; Long term systemic effects: 2.5 mg/m <sup>3</sup> Professional - Inhalation; Long term local effects: 2.5 mg/m <sup>3</sup> Professional - Inhalation; Short term systemic effects: 2.5 mg/m <sup>3</sup> Professional - Inhalation; Short term local effects: 2.5 mg/m <sup>3</sup>
PNEC	- Fresh water; 2.2 mg/l - Marine water; 0.22 mg/l - Intermittent release; 1.2 mg/l - Soil; 0.72 mg/kg - STP; 43 mg/kg

### 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

Rubber (natural, latex). Polyvinyl chloride (PVC).  
Refer to Standard EN 374. Neoprene.

#### Other skin and body protection

Provide eyewash station. 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. Provide eyewash station and safety shower.

#### Respiratory protection

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

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Do not allow the substance to contaminate surface water/ground water. See points 6, 12 &13.

Users of this product should consult local drainage and permitting authorities to ensure that any restrictions or discharge consents are adhered to. We believe that cationic component(s) of this formulation represent the greatest ecotox risk. As information becomes available it will be included in section 12 of the MSDS.

**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.

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### SECTION 9: Physical and Chemical Properties

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

**Appearance**

Clear liquid.

**Colour**

Green.

**Odour**

Detergent.

**Odour threshold**

Not applicable.

**pH**

pH (diluted solution): ~7 - 8 @ 1%v/v

**Melting point**

~ 0 degrees C

**Initial boiling point and range**

Not applicable.

**Flash point**

Not applicable. Contains no Flammable Components

**Evaporation rate**

Not applicable.

**Evaporation factor**

Not applicable.

**Flammability (solid, gas)**

Not flammable

**Upper/lower flammability or explosive limits**

Not applicable.

**Other flammability**

Not applicable.

**Vapour pressure**

Not applicable.

**Vapour density**

Not applicable.

**Relative density**

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1.03 @20 Degrees C

**Bulk density**

Not applicable.

**Solubility(ies)**

Soluble in water.

**Partition coefficient**

Not applicable. Not technically practical for mixtures.

**Auto-ignition temperature**

Not applicable.

**Decomposition Temperature**

Not applicable.

**Viscosity**

Not determined.

**Explosive properties**

Not applicable.

**Explosive under the influence of a flame**

Not considered to be explosive.

**Oxidising properties**

Not applicable. Contains no Oxidising Components.

### 9.2. Other information

**Refractive index**

Not applicable.

**Particle size**

Not applicable.

**Molecular weight**

Not applicable.

**Volatility**

Not applicable.

**Saturation concentration**

Not applicable.

**Critical temperature**

Not applicable.

**Volatile organic compound**

Not applicable.

**Explosive Properties**                      Not Classified as Explosive

**Storage Temperature Range**    0 to + 40 Degrees C

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

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### 10.1. Reactivity

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

### 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

Refer to section 10.1.

Do not mix with Hypochlorite based chemicals, this could result in a dangerous heating of the solution.

### 10.4. Conditions to avoid

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Avoid excessive heat for prolonged periods of time.

### **10.5. Incompatible materials**

#### **Materials to avoid**

May induce stress cracking in Polycarbonate.

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**

Does not decompose when used and stored as recommended. - See section 10.5.

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## **SECTION 11: Toxicological information**

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### **11.1. Information on toxicological effects**

#### **Acute toxicity - oral**

ATE oral (mg/kg)

26,500.0

#### **Acute toxicity - dermal**

ATE dermal (mg/kg)

26000.0

#### **Acute toxicity - inhalation**

ATE inhalation (dusts/mists mg/l)

49.34210526

#### **Respiratory sensitisation**

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

#### **Skin sensitisation**

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

#### **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**

Irritating to skin.

#### **Eye contact**

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

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## **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**



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Normal use is not expected to pose an ecological risk.

### Acute toxicity - fish

Very toxic to aquatic organisms.

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).

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

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

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

### 12.6. Other adverse effects

Not determined.

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## SECTION 13: Disposal considerations

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### 13.1. Waste treatment methods

#### General information

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

#### Disposal methods

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

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## SECTION 14: Transport information

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### 14.1. UN number

UN No. (ADR/RID) 3082

UN No. (IMDG) 3082

UN No. (ICAO) 3082

### 14.2. UN proper shipping name

Proper shipping name (ADR/RID) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ALCOHOL ETHOXYLATE, ALKYL BENZYL DIMETHYL AMMONIUM CHLORIDE)

Proper shipping name (IMDG) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ALCOHOL ETHOXYLATE, ALKYL BENZYL DIMETHYL AMMONIUM CHLORIDE)

Proper shipping name (ICAO) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ALCOHOL ETHOXYLATE, ALKYL BENZYL DIMETHYL AMMONIUM CHLORIDE)

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**Proper shipping name (ADN)** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ALCOHOL ETHOXYLATE, ALKYL BENZYL DIMETHYL AMMONIUM CHLORIDE)

### 14.3. Transport hazard class(es)

ADR/RID class 9

ADR/RID subsidiary risk

ADR/RID label 9

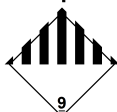
IMDG class 9

IMDG subsidiary risk

ICAO class/division 9

ICAO subsidiary risk

Transport labels



### 14.4. Packing group

ADR/RID packing group III

IMDG packing group III

ICAO packing group III

### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



Yes.

### 14.6. Special precautions for user

EmS F-A, S-F

Emergency Action Code •3Z

Hazard Identification Number (ADR/RID) 90

Tunnel restriction code (E)

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

## SECTION 15: Regulatory information

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

#### EU legislation

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

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

Abbreviations and acronyms used in the safety data sheet

## OPTIMUM MULTI PURPOSE CLEANER

(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.

### General information

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.

### Revision comments

Review in line with CLP Regulation.

**Revision date** 30/03/2015

### Risk phrases in full

R20 Harmful by inhalation.  
R22 Harmful if swallowed.  
R36 Irritating to eyes.  
R50 Very toxic to aquatic organisms.  
R36/38 Irritating to eyes and skin.  
R21/22 Harmful in contact with skin and if swallowed.  
R41 Risk of serious damage to eyes.  
R34 Causes burns.

### Hazard statements in full

H290 May be corrosive to metals.  
H302 Harmful if swallowed.  
H312 Harmful in contact with skin.  
H314 Causes severe skin burns and eye damage.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled.  
H400 Very toxic to aquatic life.  
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.

### Disclaimer

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.