



SAFETY DATA SHEET OPTIMUM MULTI PURPOSE CLEANER

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 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 Not Classified

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

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

2.2. Label elements

Hazard pictograms



Signal word Danger

Hazard statements H315 Causes skin irritation.
H318 Causes serious eye damage.
H400 Very toxic to aquatic life.
H411 Toxic to aquatic life with long lasting effects.

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Precautionary statements

P273 Avoid release to the environment.
 P280 Wear protective clothing, gloves, eye and face protection.
 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.

Contains ISO TRIDECANOL ALCOHOL ETHOXYLATE, ETHYLENEDIAMINETETRAACETIC ACID TETRASODIUM SALT, ALKYL BENZYL DIMETHYL AMMONIUM CHLORIDE

Supplementary precautionary statements 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

ISO TRIDECANOL ALCOHOL ETHOXYLATE		1-3.5%
CAS number: 69011-36-5	EC number: 931-138-8	REACH registration number: 02-2119552461-55-0000
Classification		
Acute Tox. 4 - H302		
Skin Irrit. 2 - H315		
Eye Dam. 1 - H318		
Aquatic Chronic 3 - H412		
ETHYLENEDIAMINETETRAACETIC ACID TETRASODIUM SALT		1-3%
CAS number: 64-02-8	EC number: 200-573-9	REACH registration number: 01-2119486762-27
Classification		
Met. Corr. 1 - H290		
Acute Tox. 4 - H302		
Acute Tox. 4 - H332		
Eye Dam. 1 - H318		
STOT RE 2 - H373		

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ALKYL BENZYL DIMETHYL AMMONIUM CHLORIDE			1-3%
CAS number: 68424-85-1	EC number: 270-325-2		
M factor (Acute) = 10	M factor (Chronic) = 1		
Classification			
Met. Corr. 1 - H290			
Acute Tox. 4 - H302			
Skin Corr. 1B - H314			
Eye Dam. 1 - H318			
Aquatic Acute 1 - H400			
Aquatic Chronic 1 - H410			
TETRAPOTASSIUM PYROPHOSPHATE			1-2%
CAS number: 7320-34-5	EC number: 230-785-7	REACH registration number: 01-2119489369-18-XXXX	
Classification			
Eye Irrit. 2 - H319			
BETA-ALANINE, N-(2 CARBOXYETHYL)-N-DODECYL MONO SODIUM SALT			1-2%
CAS number: 90170-43-7	EC number: 290-476-8		
Classification			
Eye Irrit. 2 - H319			
LAURYL BETAINE			<1%
CAS number: 683-10-3	EC number: 211-669-5		
Classification			
Acute Tox. 4 - H302			
Acute Tox. 4 - H312			
Skin Irrit. 2 - H315			
Eye Dam. 1 - H318			
SODIUM HYDROXIDE			<1%
CAS number: 1310-73-2	EC number: 215-185-5	REACH registration number: 01-2119457892-27	
Classification			
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 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

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4.1. Description of first aid measures

General information	For immediate First Aid advice in the UK, dial 111. 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	Contains Chelating Agents and Surfactants in Aqueous Solution. Rinse well with water to neutral pH.
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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. 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.

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

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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.

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 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.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits

SODIUM HYDROXIDE

Short-term exposure limit (15-minute): WEL 2 mg/m³

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. 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)

DNEL

Professional - Inhalation; Long term systemic effects: 1.5 mg/m³

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PNEC	<ul style="list-style-type: none"> - 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
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TETRAPOTASSIUM PYROPHOSPHATE (CAS: 7320-34-5)

DNEL	Industry/Professional - Inhalation; systemic effects: 2.79 mg/m ³
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SODIUM HYDROXIDE (CAS: 1310-73-2)

DNEL	<p>Industry - Inhalation; Long term local effects: 1.0 mg/m³</p> <p>DNEL data for Professional users is not yet available, but it is assumed to be the same as for Industrial users.</p> <p>Industry - Dermal; Short term local effects: 2%</p>
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

Use protective gloves. Rubber, neoprene or PVC. The expected use of this product is such that gloves with a breakthrough time of >60 minutes should be regarded as sufficient. Gloves should be inspected regularly for damage and replaced when necessary.

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

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.

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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	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	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.

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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

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

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.

10.4. Conditions to avoid

Conditions to avoid 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, CO₂ and O₂.

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) 8,705.2

Acute toxicity - dermal

ATE dermal (mg/kg) 26,000.0

Acute toxicity - inhalation

ATE inhalation (dusts/mists mg/l) 49.34

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

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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.
<u>Reproductive toxicity</u>	
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.

Toxicological information on ingredients.

ISO TRIDECANOL ALCOHOL ETHOXYLATE

Acute toxicity - oral

ATE oral (mg/kg) 500.0

ETHYLENEDIAMINETETRAACETIC ACID TETRASODIUM SALT

Acute toxicity - oral

Acute toxicity oral (LD₅₀ 2,000.0
mg/kg)

Species Rat

ATE oral (mg/kg) 2,000.0

Acute toxicity - inhalation

Acute toxicity inhalation 5,000.0
(LC₅₀ dust/mist mg/l)

Species Rat

ATE inhalation 1.5
(dusts/mists mg/l)

ALKYL BENZYL DIMETHYL AMMONIUM CHLORIDE

Acute toxicity - oral

Acute toxicity oral (LD₅₀ 795.0
mg/kg)

Species Rat

ATE oral (mg/kg) 795.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 1,560.0
mg/kg)

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Species Rat

LAURYL BETAINE

Acute toxicity - oral

ATE oral (mg/kg) 500.0

Acute toxicity - dermal

ATE dermal (mg/kg) 1,100.0

SODIUM HYDROXIDE

Toxicological effects Will cause immediate corrosion of and damage to the GI Tract, Lethal dose in man is approximately 5g.

SECTION 12: Ecological information

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

Very toxic to aquatic organisms.

See note 12.0.

To the best of our current knowledge, the main ecotoxicological effect is due to the Alkyl 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).

Ecological information on ingredients.

ALKYL BENZYL DIMETHYL AMMONIUM CHLORIDE

Acute aquatic toxicity

LE(C)₅₀ 0.01 < L(E)C50 ≤ 0.1

M factor (Acute) 10

Acute toxicity - fish LC₅₀, 96 hours: 0.93 mg/l, Fish

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 0.0058 mg/l, Daphnia magna

Acute toxicity - aquatic plants IC₅₀, 72 hours: 0.049 mg/l, Algae

Chronic aquatic toxicity

NOEC 0.001 < NOEC ≤ 0.01

Degradability Rapidly degradable

M factor (Chronic) 1

SODIUM HYDROXIDE

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Acute aquatic toxicity

Acute toxicity - fish

No reliable data is available for this substance. Concentrations greater than 10ppm, or a pH value equal to or greater than 10.5 may be fatal to fish and other aquatic organisms. Can cause damage to other aquatic plants. Can cause damage to vegetation.

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.

Ecological information on ingredients.

ALKYL BENZYL DIMETHYL AMMONIUM CHLORIDE

Persistence and degradability

The product is more than 80% biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential Not expected to bioaccumulate.

Partition coefficient Not applicable. Not technically practical for mixtures.

Ecological information on ingredients.

ALKYL BENZYL DIMETHYL AMMONIUM CHLORIDE

Bioaccumulative potential The product is not bioaccumulating.

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. 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.

SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID) 3082

UN No. (IMDG) 3082

UN No. (ICAO) 3082

14.2. UN proper shipping name

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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)
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 label	9
IMDG class	9
ICAO class/division	9

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



14.6. Special precautions for user

EmS	F-A, S-F
Hazard Identification Number (ADR/RID)	90
Tunnel restriction code	(E)

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

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

SECTION 15: Regulatory information

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

National regulations	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.
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EU legislation 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).

15.2. Chemical safety assessment

Pcs Information

No chemical safety assessment has been carried out.

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet (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 Amendment to the emergency phone number in Section 1.4.

Revision date 05/11/2021

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.
H373 May cause damage to organs through prolonged or repeated exposure.
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

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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.