



HOLCHEM

SAFETY DATA SHEET

OPTIMUM WASHROOM CLEANER & DISINFECTANT CONC

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 WASHROOM CLEANER & DISINFECTANT CONC

Product number OPTA2

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 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

Manufacturer 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 (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

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Environmental hazards Aquatic Acute 1 - H400 Aquatic Chronic 3 - H412

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.
 H412 Harmful to aquatic life with long lasting effects.

Precautionary statements
 P273 Avoid release to the environment.
 P280 Wear protective gloves, eye and face protection.
 P302+P352 IF ON SKIN: Wash with plenty of water.
 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 LAURYL BETAINE, DIDECYL DIMETHYL AMMONIUM CHLORIDE, ISO TRIDECANOL ALCOHOL ETHOXYLATE

Detergent labelling < 5% amphoteric surfactants, < 5% cationic surfactants, < 5% non-ionic surfactants, < 5% perfumes, Contains AMYL CINNAMIC ALDEHYDE

Supplementary precautionary statements P332 If skin irritation occurs:
 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

LAURYL BETAINE	1-5%
CAS number: 683-10-3	EC number: 211-669-5
Classification	Classification (67/548/EEC or 1999/45/EC)
Acute Tox. 4 - H302	Xi;R36/38,R41.
Acute Tox. 4 - H312	
Skin Irrit. 2 - H315	
Eye Dam. 1 - H318	

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DIDECYL DIMETHYL AMMONIUM CHLORIDE 1-<3%		
CAS number: 7173-51-5	EC number: 230-525-2	
M factor (Acute) = 10		
Classification Met. Corr. 1 - H290 Acute Tox. 4 - H302 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Aquatic Acute 1 - H400	Classification (67/548/EEC or 1999/45/EC) Xn;R22. C;R34. N;R50.	
ISO TRIDECANOL ALCOHOL ETHOXYLATE 1-5%		
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	Classification (67/548/EEC or 1999/45/EC) Xi;R41.	
N-(3-AMINOPROPYL)-N-DODECYLPROPANE-1,3-DIAMINE <1%		
CAS number: 2372-82-9	EC number: 219-145-8	REACH registration number: 01-2119980592-29-XXXX
M factor (Acute) = 10	M factor (Chronic) = 1	
Classification Acute Tox. 3 - H301 Skin Corr. 1B - H314 Eye Dam. 1 - H318 STOT RE 2 - H373 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	Classification (67/548/EEC or 1999/45/EC) Xn; R22, R48/22. C; R35. N; R50	
PROPAN-2-OL <1%		
CAS number: 67-63-0	EC number: 200-661-7	REACH registration number: 01-2119457558-25
Classification Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336	Classification (67/548/EEC or 1999/45/EC) F; R11. Xi; R36. R67	

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1-DODECANOL <1%		
CAS number: 112-53-8	EC number: 203-982-0	REACH registration number: 01-2119485976-15
M factor (Acute) = 1		
Classification Eye Irrit. 2 - H319 Aquatic Acute 1 - H400 Aquatic Chronic 2 - H411	Classification (67/548/EEC or 1999/45/EC) Xi;R36. N;R50.	
ALKYL DIMETHYL AMINE OXIDE <1%		
CAS number: 308062-28-4	EC number: 931-292-6	REACH registration number: 01-2119490061-47
M factor (Acute) = 1		
Classification Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Aquatic Acute 1 - H400 Aquatic Chronic 2 - H411	Classification (67/548/EEC or 1999/45/EC) Xn; R22. Xi; R38, R41. N; R50/53	
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	Classification (67/548/EEC or 1999/45/EC) C;R35	

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. The Biocidally Active components of this product are supported in the Biocidal Products Regulation.

SECTION 4: First aid measures

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. 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. Continue to rinse for at least 15 minutes and get medical attention.

Protection of first aiders First aid personnel should wear appropriate protective equipment during any rescue.

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. Use solutions may cause mild irritation, especially to open cuts and abrasions. May cause skin sensitisation or allergic reactions in sensitive individuals.

Eye contact May result in permanent eye damage.

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

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

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 This product is non combustible, on heating corrosive vapours 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

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. Dike far ahead of larger spills for later disposal. 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

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Reference to other sections See sections 8, 12 & 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact. Refer to section 8. Read and follow manufacturer's recommendations.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Keep container tightly closed. Store in a demarcated bunded area to prevent release to drains and/or watercourses. Store in a cool and well-ventilated place.

7.3. Specific end use(s)

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

Usage description This product is not suitable for use in food preparation areas and is not suitable for direct food contact.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits

PROPAN-2-OL

Long-term exposure limit (8-hour TWA): WEL 400 ppm 999 mg/m³

Short-term exposure limit (15-minute): WEL 500 ppm 1250 mg/m³

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. 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.

Alanine, N,N-bis(carboxymethyl) - trisodium salt

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DNEL Professional - Inhalation; Short term systemic effects: 40 mg/m³
 Professional - Inhalation; Short term local effects: 40 mg/m³
 Professional - Inhalation; Long term local effects: 4 mg/m³

PNEC - Fresh water; 2 mg/l
 - STP; 100 mg/l
 - Soil; 2.5 mg/kg
 - marine water; 0.2 mg/l
 - Intermittent release; 1 mg/l

N-(3-AMINOPROPYL)-N-DODECYLPROPANE-1,3-DIAMINE (CAS: 2372-82-9)

DNEL Professional - Inhalation; Long term systemic effects: 2.35 mg/m³

PNEC - Fresh water; 0.001 mg/l
 - marine water; 0.0001 mg/l
 - Sediment (Freshwater); 8.5 mg/l
 - Sediment (Marinewater); 0.85 mg/l
 - Soil; 45.34 mg/l

PROPAN-2-OL (CAS: 67-63-0)

DNEL Professional - Dermal; 1 d Chronic effects: 888 mg/kg
 Professional - Inhalation; Chronic effects: 500 mg/m³

PNEC - Fresh water; 140.9 mg/l
 - marine water; 140.9 mg/l
 - Sediment (Freshwater); 552 mg/kg
 - Sediment (Marinewater); 552 mg/kg
 - Soil; 28 mg/kg

CITRIC ACID (CAS: 5949-29-1)

PNEC - Fresh water; 0.44 mg/l
 - marine water; 0.044 mg/l
 - STP; >1000 mg/l
 - Sediment (Freshwater); 34.6 mg/kg
 - Sediment (Marinewater); 3.46 mg/kg
 - Soil; 33.1 mg/kg

ALKYL DIMETHYL AMINE OXIDE (CAS: 308062-28-4)

DNEL Professional - Dermal; Long term systemic effects: 11 mg/kg/day
 Professional - Inhalation; Long term systemic effects: 15.5 mg/m³ 8h
 Professional - Dermal; Long term local effects: 0.27 %
 General population - Dermal; Long term systemic effects: 5.5 mg/kg/day
 General population - Inhalation; Long term systemic effects: 3.8 mg/m³
 General population - Oral; Long term systemic effects: 0.44 mg/kg/day

PNEC - Fresh water; 0.0335 mg/l
 - marine water; 0.00335 mg/l
 - Intermittent release; 0.0335 mg/l
 - Sediment (Freshwater); 1.02 mg/kg
 - Sediment (Marinewater); 24 mg/kg
 - Soil; 1.02 mg/kg
 - STP; 24 mg/kg

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SODIUM HYDROXIDE (CAS: 1310-73-2)

DNEL	Industry - Inhalation; Long term local effects: 1.0 mg/m ³ 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%
PNEC	No information is available for PNEC data for Sodium Hydroxide

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

If use of this product generates dust, mists, vapours or fumes, process enclosures or local exhaust ventilation or other engineering controls should be used to keep worker exposure below any statutory or recommended limits quoted in this msds or other data sources.

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

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Tight-fitting safety glasses. Refer to EN Standard 166 to select appropriate level of protection.

Hand protection

For prolonged skin contact use of gloves is recommended for chemicals. Refer to Standard EN 374 and EN 16523

Other skin and body protection

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.

Hygiene measures

Not applicable.

Respiratory protection

No specific recommendation made, but respiratory protection must be used if the general level exceeds the Workplace Exposure Limit.

Environmental exposure controls

Do not allow the substance to contaminate surface water/ground water. See points 6, 12 & 13. We believe that the disinfectant active component(s) of this formulation represent the greatest environmental risk. Information on these are given in section 12. 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.

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. 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

Appearance Clear liquid.

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Colour	Pink.
Odour	Floral
Odour threshold	Not applicable.
pH	pH (concentrated solution): 9 - 10 pH (diluted solution): 8 - 9 @ 1%
Melting point	Store above 0 Degrees C
Initial boiling point and range	Not available.
Flash point	Not applicable.
Evaporation rate	Not applicable.
Evaporation factor	Not applicable.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	Not applicable.
Vapour pressure	Not applicable.
Vapour density	Not applicable.
Relative density	1.01 @ 20 Degrees C.
Bulk density	Not applicable.
Solubility(ies)	Soluble in water.
Partition coefficient	Not applicable. Technically not feasible. 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	Does not meet the criteria for classification as oxidising. Not applicable. Contains no Oxidising Components.
<u>9.2. Other information</u>	
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 +30 Degrees C

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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 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) 6,851.14

Acute toxicity - dermal

ATE dermal (mg/kg) 45,833.33

Skin sensitisation

Skin sensitisation May cause sensitisation by skin contact.

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. Prolonged or repeated contact of in use solutions with skin may cause redness, itching, irritation and eczema/chapping. Use solutions may cause mild irritation especially to open cuts and abrasions. May cause sensitisation or allergic reactions in sensitive individuals.

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

SECTION 12: Ecological information

Ecotoxicity This product is classified as Harmful to aquatic organisms. However, normal use is not expected to pose a risk.

12.1. Toxicity

Acute aquatic toxicity

Acute toxicity - fish

To the best of our current knowledge, the main ecotoxicological impact from this product is due to Didecyl Dimethyl Ammonium Chloride and N-(3-Aminopropyl)-N-Dodecylpropane-1,3-Diamine, for which we have the following information:-

Didecyl Dimethyl Ammonium Chloride:-

The EC(50)/48hr Value for Daphnia magna is 0.062mg/l.

The LC(50)/96hr for fathead minnow is 0.19mg/l

Toxicity to bacteria in activated sewage sludge (EC50)/3hr = 11mg/l

N-(3-Aminopropyl)-N-Dodecylpropane-1,3-Diamine:-

The EC50(48hr) value for Daphnia magna is 0.073mg/l.

The NOEC(21d) value for Daphnia magna is 0.024mg/l.

The LC50(96hr) value for Rainbow Trout is 0.68mg/l.

The ErC50(96hr) value for Green Algae is 0.054mg/l.

The toxicity to bacteria EC50(3hr) is 18mg/l activated sludge.

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. Technically not feasible. 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.

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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)	3082
UN No. (IMDG)	3082
UN No. (ICAO)	3082
UN No. (ADN)	3082

14.2. UN proper shipping name

Proper shipping name (ADR/RID)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS DIDECYL DIMETHYL AMMONIUM CHLORIDE, N-(3-AMINOPROPYL)-N-DODECYLPROPANE-1,3-DIAMINE)
Proper shipping name (IMDG)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS DIDECYL DIMETHYL AMMONIUM CHLORIDE, N-(3-AMINOPROPYL)-N-DODECYLPROPANE-1,3-DIAMINE)
Proper shipping name (ICAO)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS DIDECYL DIMETHYL AMMONIUM CHLORIDE, N-(3-AMINOPROPYL)-N-DODECYLPROPANE-1,3-DIAMINE)
Proper shipping name (ADN)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS DIDECYL DIMETHYL AMMONIUM CHLORIDE, N-(3-AMINOPROPYL)-N-DODECYLPROPANE-1,3-DIAMINE)

14.3. Transport hazard class(es)

ADR/RID class	9
ADR/RID classification code	M6
ADR/RID label	9
IMDG class	9
ICAO class/division	9
ADN class	9

Transport labels



14.4. Packing group

ADR/RID packing group	III
IMDG packing group	III
ICAO packing group	III
ADN packing group	III

14.5. Environmental hazards

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Environmentally hazardous substance/marine pollutant



14.6. Special precautions for user

EmS	F-A, S-F
ADR transport category	3
Emergency Action Code	•3Z
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

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.
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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	<p>NPIS - National Poisons Information Service.</p> <p>vPvB - Very Persistent, Very bioaccumulative.</p> <p>PBT - Persistent, Bioaccumulative & Toxic.</p> <p>REACH - Registration, Evaluation, Authorisation & restriction of CHemicals (Regulation EC 1907/2006).</p> <p>DNEL - Derived No Effect Limit.</p> <p>PNEC - Predicted No Effect Concentration.</p> <p>COSHH - Control of Substances Hazardous to Health.</p> <p>LC50 - Lethal Concentration 50 - The environmental contamination at which 50% mortality is reached over a fixed time scale.</p> <p>LD50 - Lethal Dose 50 - The dose at which 50% of the tested group will die.</p> <p>EC50 - Effective Concentration 50 - Concentration of a substance in water at which 50% of the maximum biological response is reached.</p> <p>ErC50 means EC50 in terms of reduction of growth rate.</p>
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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	Addition of H412 to classification Review of concentration ranges in section 3.
Revision date	19/02/2019
Risk phrases in full	R11 Highly flammable R22 Harmful if swallowed. R34 Causes burns. R35 Causes severe burns. R36 Irritating to eyes. R36/38 Irritating to eyes and skin. R38 Irritating to skin. R41 Risk of serious damage to eyes. R43 May cause sensitisation by skin contact. R48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed. R50 Very toxic to aquatic organisms. R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R67 Vapours may cause drowsiness and dizziness.
Hazard statements in full	H225 Highly flammable liquid and vapour. H290 May be corrosive to metals. H301 Toxic if swallowed. 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. H336 May cause drowsiness or dizziness. 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

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.