



HOLCHEM

**SAFETY DATA SHEET****OPTIMUM WASHROOM CLEANER AND DISINFECTANT CONCENTRATE**

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 AND DISINFECTANT CONCENTRATE

**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

**1.4. Emergency telephone number**

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

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification**

**Physical hazards** Not Classified

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

**Environmental hazards** Aquatic Acute 1 - H400

**2.2. Label elements**

## OPTIMUM WASHROOM CLEANER AND DISINFECTANT CONCENTRATE

### Pictogram



### Signal word

Danger

### Hazard statements

H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H400 Very toxic to aquatic life.

### 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

ISO TRIDECANOL ALCOHOL ETHOXYLATE, LAURYL BETAINE

### 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

<b>LAURYL BETAINE</b>		<b>1-5%</b>
CAS number: 683-10-3	EC number: 211-669-5	
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>	
Skin Irrit. 2 - H315	Xi;R36/38,R41.	
Eye Dam. 1 - H318		
<b>DIDECYL DIMETHYL AMMONIUM CHLORIDE</b>		<b>1-5%</b>
CAS number: 7173-51-5	EC number: 230-525-2	
M factor (Acute) = 10		
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>	
Met. Corr. 1 - H290	Xn;R22. C;R34. N;R50.	
Acute Tox. 4 - H302		
Skin Corr. 1B - H314		
Eye Dam. 1 - H318		
Aquatic Acute 1 - H400		

## OPTIMUM WASHROOM CLEANER AND DISINFECTANT CONCENTRATE

<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 Aquatic Chronic 3 - H412		Xi;R41.	
<b>N-(3-AMINOPROPYL)-N-DODECYLPROPANE-1,3-DIAMINE</b>			<b>&lt;1%</b>
CAS number: 2372-82-9	EC number: 219-145-8	M factor (Acute) = 10	
<b>Classification</b>		<b>Classification (67/548/EEC or 1999/45/EC)</b>	
Acute Tox. 3 - H301 Skin Corr. 1B - H314 STOT RE 2 - H373 Eye Dam. 1 - H318 Aquatic Acute 1 - H400		Xn;R48/22. C;R35. N;R50.	
<b>PROPAN-2-OL</b>			<b>&lt;1%</b>
CAS number: 67-63-0	EC number: 200-661-7	REACH registration number: 01-2119457558-25	
<b>Classification</b>		<b>Classification (67/548/EEC or 1999/45/EC)</b>	
Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336		F;R11 Xi;R36 R67	
<b>1-DODECANOL</b>			<b>&lt;1%</b>
CAS number: 112-53-8	EC number: 203-982-0	REACH registration number: 01-2119485976-15	
M factor (Acute) = 1			
<b>Classification</b>		<b>Classification (67/548/EEC or 1999/45/EC)</b>	
Eye Irrit. 2 - H319 Aquatic Acute 1 - H400 Aquatic Chronic 2 - H411		Xi;R36. N;R50.	

## OPTIMUM WASHROOM CLEANER AND DISINFECTANT CONCENTRATE

<b>ALKYL DIMETHYL AMINE OXIDE</b>		<b>&lt;1%</b>
CAS number: 308062-28-4	EC number: 931-292-6	REACH registration number: 01-2119490061-47
M factor (Acute) = 1		
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>	
Acute Tox. 4 - H302	Xn; R22. Xi; R38, R41. N; R50/53	
Skin Irrit. 2 - H315		
Eye Dam. 1 - H318		
Aquatic Acute 1 - H400		
Aquatic Chronic 2 - H411		

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

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

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

<b>General information</b>	Neat product may cause chemical burns and permanent eye damage. Dilute product may cause irritation to the skin and eyes.
<b>Inhalation</b>	Unlikely route of exposure. Inhalation of sprayed droplets may result in soreness of the throat, mouth and nose.
<b>Ingestion</b>	Unlikely route of exposure without deliberate abuse. If neat chemical is ingested, chemical burning of mouth, throat and GI tract will occur. If dilute chemical is ingested some soreness of the mouth, throat and GI tract may occur.
<b>Skin contact</b>	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.
<b>Eye contact</b>	May result in permanent eye damage.

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

## OPTIMUM WASHROOM CLEANER AND DISINFECTANT CONCENTRATE

**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

**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. Use as instructed on the product information sheet.

### SECTION 8: Exposure Controls/personal protection

#### 8.1. Control parameters

## OPTIMUM WASHROOM CLEANER AND DISINFECTANT CONCENTRATE

### Occupational exposure limits

#### **PROPAN-2-OL**

Long-term exposure limit (8-hour TWA): WEL 400 ppm 999 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 500 ppm 1250 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. 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

<b>DNEL</b>	Professional - Inhalation; Short term systemic effects: 40 mg/m <sup>3</sup> Professional - Inhalation; Short term local effects: 40 mg/m <sup>3</sup> Professional - Inhalation; Long term local effects: 4 mg/m <sup>3</sup>
<b>PNEC</b>	- Fresh water; 2 mg/l - Marine water; 0.2 mg/l - Intermittent release; 1 mg/l - STP; 100 mg/l - Soil; 2.5 mg/kg

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

<b>DNEL</b>	Professional - Inhalation; Long term systemic effects: 2.35 mg/m <sup>3</sup>
<b>PNEC</b>	- 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)

<b>DNEL</b>	Professional - Dermal; 1 d Chronic effects: 888 mg/kg Professional - Inhalation; Chronic effects: 500 mg/m <sup>3</sup>
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## OPTIMUM WASHROOM CLEANER AND DISINFECTANT CONCENTRATE

### CITRIC ACID (CAS: 5949-29-1)

<b>PNEC</b>	<ul style="list-style-type: none"> <li>- Fresh water; 0.44 mg/l</li> <li>- Marine water; 0.044 mg/l</li> <li>- STP; &gt;1000 mg/l</li> <li>- Sediment (Freshwater); 34.6 mg/kg</li> <li>- Sediment (Marinewater); 3.46 mg/kg</li> <li>- Soil; 33.1 mg/kg</li> </ul>
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### ALKYL DIMETHYL AMINE OXIDE (CAS: 308062-28-4)

<b>DNEL</b>	<p>Professional - Dermal; Long term systemic effects: 11 mg/kg/day          Professional - Inhalation; Long term systemic effects: 15.5 mg/m<sup>3</sup> 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/m<sup>3</sup>          General population - Oral; Long term systemic effects: 0.44 mg/kg/day</p>
<b>PNEC</b>	<ul style="list-style-type: none"> <li>- Fresh water; 0.0335 mg/l</li> <li>- Marine water; 0.00335 mg/l</li> <li>- Intermittent release; 0.0335 mg/l</li> <li>- Sediment (Freshwater); 1.02 mg/kg</li> <li>- Sediment (Marinewater); 24 mg/kg</li> <li>- Soil; 1.02 mg/kg</li> <li>- STP; 24 mg/kg</li> </ul>

## 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. 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.

### 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

Promptly remove non-impervious clothing that has become contaminated, provided it is not adhered to the skin. Provide eyewash station and safety shower.

## OPTIMUM WASHROOM CLEANER AND DISINFECTANT CONCENTRATE

<b>Respiratory protection</b>	No specific recommendation made, but respiratory protection must be used if the general level exceeds the Workplace Exposure Limit.
<b>Environmental exposure controls</b>	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.
<b>General Health and Safety Measures.</b>	The above requirements refer to the neat product. Normal use solutions of this product are unclassified. However, a full COSHH assessment should still be conducted. We recommend use of gloves and eye protection. A full Risk Assessment should be carried out before handling any chemical(s). Risk Assessments should refer to COSHH, and any other relevant legislation or industry specific guidelines governing the use of chemicals.

### SECTION 9: Physical and Chemical Properties

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

<b>Appearance</b>	Clear liquid.
<b>Colour</b>	Pink.
<b>Odour</b>	Characteristic.
<b>Odour threshold</b>	Not applicable.
<b>pH</b>	pH (concentrated solution): 9 - 10 pH (diluted solution): 8 - 9 @ 1%
<b>Melting point</b>	Store above 0 Degrees C
<b>Initial boiling point and range</b>	Not available.
<b>Flash point</b>	Not applicable.
<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>	1.01 @ 20 Degrees C.
<b>Bulk density</b>	Not applicable.
<b>Solubility(ies)</b>	Soluble in water.
<b>Partition coefficient</b>	Not applicable. Technically not feasible. 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.



## OPTIMUM WASHROOM CLEANER AND DISINFECTANT CONCENTRATE

**Oxidising properties** Does not meet the criteria for classification as oxidising. 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

## 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, 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)** 13,251.4114912

#### 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

## OPTIMUM WASHROOM CLEANER AND DISINFECTANT CONCENTRATE

<b>Reproductive toxicity - fertility</b>	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.
<b>General information</b>	See section 4.2.
<b>Inhalation</b>	Unlikely route of exposure. Inhalation of sprayed droplets may result in soreness of the throat, mouth and nose. - See section 4.2.
<b>Ingestion</b>	Will cause severe irritation to mouth, throat and GI-Tract.
<b>Skin contact</b>	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.
<b>Eye contact</b>	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 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

## OPTIMUM WASHROOM CLEANER AND DISINFECTANT CONCENTRATE

**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)** 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. (DIDECYL DIMETHYL AMMONIUM CHLORIDE, N-(3-AMINOPROPYL)-N-DODECYLPROPANE-1,3-DIAMINE)

**Proper shipping name (IMDG)** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DIDECYL DIMETHYL AMMONIUM CHLORIDE, N-(3-AMINOPROPYL)-N-DODECYLPROPANE-1,3-DIAMINE)

**Proper shipping name (ICAO)** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DIDECYL DIMETHYL AMMONIUM CHLORIDE, N-(3-AMINOPROPYL)-N-DODECYLPROPANE-1,3-DIAMINE)

**Proper shipping name (ADN)** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DIDECYL DIMETHYL AMMONIUM CHLORIDE, N-(3-AMINOPROPYL)-N-DODECYLPROPANE-1,3-DIAMINE)

### 14.3. Transport hazard class(es)

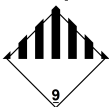
**ADR/RID class** 9

**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

# OPTIMUM WASHROOM CLEANER AND DISINFECTANT CONCENTRATE

Environmentally hazardous substance/marine pollutant



## 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

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

## 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

No chemical safety assessment has been carried out.

## SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet	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. LC50 - Lethal Concentration 50 - The environmental contamination at which 50% mortality is reached over a fixed time scale. LD50 - Lethal Dose 50 - The dose at which 50% of the tested group will die. EC50 - Effective Concentration 50 - Concentration of a substance in water at which 50% of the maximum biological response is reached. ErC50 means EC50 in terms of reduction of growth rate.
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.

## OPTIMUM WASHROOM CLEANER AND DISINFECTANT CONCENTRATE

<b>Revision date</b>	30/03/2015
<b>Risk phrases in full</b>	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.
<b>Hazard statements in full</b>	H290 May be corrosive to metals. H301 Toxic if swallowed. H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H318 Causes serious eye damage. H319 Causes serious eye irritation. H373 May cause damage to organs through prolonged or repeated exposure. H400 Very toxic to aquatic life. H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.
<b>REACH extended MSDS comments</b>	REACH requires that persons handling chemicals should take the necessary risk management measures, in accordance with assessments from manufacturers and importers of chemical substances. The relevant recommendations must be passed along the supply chain. These assessments are generally reported in Exposure Scenarios. Where Exposure Scenarios have been provided for substances used in this product, the relevant information is incorporated into the safety data sheet.

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