

# Disinfectant Detergent Portfolio



PVA Hygiene provides an innovative and sustainable method of cleaning. As the UK's leading manufacturer of water-soluble cleaning products, we cover all areas of commercial cleaning. Over 24 years, we have developed a system using pre-dosed sachets that is straightforward to implement and balances environment diligence with commercial demands. Based in the South West of England, we distribute globally.



This portfolio contains documents relating to PVA Hygiene's DISINFECTANT DETERGENT.

This unique formulation is contained within a PVOH or paper film that dissolves at the point of use. The sachets are dry, compact and light, they reduce storage space and transportation costs, and heavily reduce the environmental implications often associated with delivering cleaning supplies. The sachets are packed in planet friendly packaging, that can either be composted or recycled, helping you to eliminate single-use plastic from your current cleaning procedure.



#### CONTENTS:

- 1) Technical Data Sheet.
- 2) Use Solution Health and Safety Summary
- 3) Efficacy Data Reports.
- 4) Product Safety Data Sheet.



### PRODUCT DESCRIPTION

Disinfectant Detergent is based on PVA Hygiene's unique Aqua-Dis PDCCS9 technology. Sachets contain a blend of biodegradable chelates and surfactants and a cationic disinfectant. It is designed for routine cleaning and disinfection of floors. The product is safe for use on normal materials of construction. When used as directed this product conforms to EN13697.

Sachets are supplied in the following Pack Sizes:-

Pack Size	Sachet Type	Order Code	Outer Packaging
100 * 15g	PVA-OH	X5:100	Box
60 * 15g	Paper	PA5:60	Pouch
100 * 15g	PVA-OH	A5:100	Pouch

- Supplied in convenient water soluble PVA-OH or Paper sachets within a compostable container.
  - Slip free finish.
  - Broad Spectrum Biocidal Activity.
  - Phosphate Free.
  - Identifiable Colour.
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### INSTRUCTIONS FOR USE

For general cleaning, remove any gross debris from the surface, fill a clean bucket with 4 to 10ltr of warm water, add one sachet of Disinfectant Detergent, agitate the solution to dissolve and disperse the powder. Apply the solution with a clean cloth or mop, routinely squeeze out dirty solution from the mop or cloth and apply fresh solution. Once the area has been cleaned allow to air dry.

For disinfection. Add two sachets to 3 litres of warm water in a clean bucket and agitate the solution to dissolve and disperse the powder. Apply the solution with a clean cloth or mop, routinely squeeze out dirty solution from the mop or cloth and apply fresh solution. Once the area has been cleaned, allow to air dry.


Consider using appropriate signage to identify that cleaning is in progress and floors may be wet.

This product can also be used in scrubber drier machines.

Care should be taken on unsealed wood. This product is not suitable for Perspex and Acrylic plastic and care should be taken of decorative print finishes.

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**TECHNICAL DATA SUMMARY**

Appearance	Orange Yellow /Powder
Odour	Non distinct (Perfume free)
Foam	Low
pH of use solution 	10 - 11
Storage Temperature Range	0°C to +40°C
Shelf Life of Sachet	Minimum of 2 years under normal conditions of dry storage.

**EFFICACY DATA**

Test	Compliance Conditions		Organism Type/Compliance
	Time / Minutes	Minimum Concentration	
EN13697	30	1.0% (2 sachet /3ltr)	Claim supported by standard organisms of:- Pseudomonas aeruginosa. Escherichia coli. Enterococcus hirae. Staphylococcus aureus.

**EMERGENCY DETAILS**

For accident, emergency and health & safety information refer to the Safety Data Sheet for this product.

This product is registered with the UK National Poisons Information Service.

Office Hours Emergency Number +44 (0) 1934 862859

Outside Office Hours: - +44 (0)7967 149256 (This is for health, safety and environmental emergencies only, it is not for general enquires or ordering).

**DISCLAIMER**

Whilst every effort is made to ensure that the information given in this product information sheet is accurate it is given without guarantee, since the conditions of use are beyond our control.

<b>IDENTIFICATION OF THE MATERIAL</b>	
<b>Product Name</b>	<b>Disinfectant Detergent use solution</b>
<b>Main Use</b>	Cleaning and Disinfecting Floors
<b>Uses Advised Against</b>	Not for Direct Oral Consumption Keep Out of Reach of Children Do Not Mix with other Chemicals/Detergents.
<b>Manufacturer</b>	PVA Hygiene, Unit 6 Havyat Business Park Havyat Road, Bristol, BS40 5PA
<b>Telephone</b>	+44 (0) 1934 862859

<b>PHYSICAL AND CHEMICAL PROPERTIES</b>	
<b>Appearance</b>	Clear Liquid
<b>Colour</b>	Orange
<b>pH</b>	10 – 11.5

<b>CLASSIFICATION, PPE, FIRST AID AND DISPOSAL</b>	
<b>Health</b>	In use solutions of this product have no Health Classifications
<b>Physical</b>	In use solutions of this product have no Physical Classifications
<b>Environmental</b>	In use solutions of this product have no Environmental Classifications
<b>PPE</b>	No PPE is mandated for this product at use strength. However, we suggest gloves for general hygiene.
<b>First Aid</b>	<p><b>EYES:-</b> May cause reddening, discomfort and blurred vision Rinse with Plenty of Water.</p> <p><b>SKIN:-</b> Repeated extended contact may result in skin dryness. Use a suitable re-moisturising cream and get medical attention if symptoms persist.</p> <p><b>INHALATION:-</b> Unlikely.</p> <p><b>INGESTION:-</b> A soapy taste may be reported, together with irritation to mouth and GI Tract rinse mouth thoroughly. If concerned seek medical advice Show the label or Safety Data sheet to the Physician.</p>
<b>Disposal</b>	Solutions can be disposed to normal sewers and septic tanks.

Company Name: PVA Hygiene Ltd

Contact Name: Jim Taylour

Contact Email: technical@pva-hygiene.co.uk

Purchase Order No: N/A

Report Date: 30/06/2021

**Melbec Ref Number:** 28493

**No. of Samples:** 1

**Name of Test Product:** PDCCS9 A Surface Disinfectant

**Batch Number:** N/A

**Sample Details:**

Manufacture / Supplier:..... PVA Hygiene Ltd  
Product storage conditions:..... Ambient  
Appearance of the product (as supplied):..... White sachet  
Appearance of the product (after dilution):..... Cloudy liquid  
Active substance and concentration:..... Benzalkonium Chloride  
Product dilutions/concentrations:..... 15g in 1.5l water  
Diluent used to dilute product:..... Synthetic Hard Water  
Incubation temperature:..... Bacteria: 35 to 38°C for 48+6h; Fungi: 30+1°C for 48+6h

The test product was in satisfactory condition for testing when received.

Date product received: 07/06/21

Test Date: 22/06/21

**Experimental Conditions:**

Interfering substance: Bovine Albumin (clean 0.3g/l)  
Test temperature: 18°C to 25°C  
Contact time: 30 Minutes  
Test organisms: *Pseudomonas aeruginosa* ATCC 15442  
*Staphylococcus aureus* ATCC 6538  
*Escherichia coli* ATCC 10536  
*Enterococcus hirae* ATCC 10541

**Requirements of the Standard:**

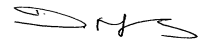
The test product shall demonstrate at least a 4 decimal logarithm (lg) reduction for bacteria and a at least a 3 decimal logarithm (lg) reduction for fungi when tested in accordance with this standard under simulated clean or dirty conditions.

MTF 5.10.94 Issue 2

**Conclusion:**

The test product has met the requirements as specified in EN13697 for a bactericidal claim in clean conditions with a contact time of 30 minutes.

Report authorised by:



Name: Dawn Mellors  
Position: Technical Director  
Date: 30/06/2021

**Test Results:**

**Neutralisation Method Used:**

Dilution neutralisation by pour plate

Neutraliser used                      N1

**Viable Counts (Nc, Nd & Nts)**

Nc is the mean log number of organisms per test surface of the water control at the end of the contact time

Nd is the mean log number of organisms per test surface of the disinfectant test at the end of the contact time

Nts is the mean number of organisms remaining on the test surface at the end of the test.

NC is the neutraliser control

NT is the method validation

**Log Reduction:**

Log reduction (R) =  $\text{Log}N_c - \text{Log}N_d$



**Bacterial or Fungal Test Suspension (N) (cfu/disc)**

	<i>Pseudomonas aeruginosa</i> ATCC 15442			<i>Staphylococcus aureus</i> ATCC 6538			<i>Escherichia coli</i> ATCC 10536			<i>Enterococcus hirae</i> ATCC 10541		
Count	-7	209	195	-6	>330	>330	-6	166	150	-6	>330	>330
	-8	23	18	-7	42	36	-7	17	12	-7	41	38
Weighted Mean	2.02E+09			3.90E+08			1.59E+08			3.95E+08		
Lg	9.31			8.59			8.20			8.60		
6.57<N<7.10	-			6.99			6.60			6.99		
7.57<N<8.10	7.70											

**Validation and Controls (Counts on Test Surfaces)**

	<i>Pseudomonas aeruginosa</i> ATCC 15442						<i>Staphylococcus aureus</i> ATCC 6538					
	NT			NC			NT			NC		
Count	-3	>330	>330	-3	>330	>330	-3	>330	>330	-3	>330	>330
	-4	41	35	-4	26	25	-4	106	103	-4	123	94
Weighted Mean	3.80E+06			2.55E+06			1.05E+07			1.09E+07		
Lg	6.58			6.41			7.02			7.04		
NC - Nc (Not > +/- 0.3lg)	-			0.10			-			0.24		
NT - Nc (Not > +/- 0.3lg)	0.28			-			0.23			-		

	<i>Escherichia coli</i> ATCC 10536						<i>Enterococcus hirae</i> ATCC 10541					
	NT			NC			NT			NC		
Count	-3	>330	>330	-3	>330	>330	-3	>330	>330	-3	>330	>330
	-4	33	21	-4	35	28	-4	83	59	-4	54	32
Weighted Mean	2.70E+06			3.15E+06			7.10E+06			4.30E+06		
Lg	6.43			6.50			6.85			6.63		
NC - Nc (Not > +/- 0.3lg)	-			0.21			-			-0.11		
NT - Nc (Not > +/- 0.3lg)	0.14			-			0.10			-		

**Determination of Microbicidal Activity (Nd) and Water Control (Nc) (Count/Test Surface)**

***Pseudomonas aeruginosa ATCC 15442***

10 <sup>x</sup>	Water Control (Nc)		Test Procedure (Nd)	
			15g in 1.5l water	
N	-		<14	<14
-1	-		-	-
-3	247	174	-	
-4	21	12	-	
Mean	2.00E+06		1.40E+02	
Lg	6.30		<2.15	
Nts (count remaining on disc)	67		0	
Log Reduction (R)			>4.15	

***Staphylococcus aureus ATCC 6538***

10 <sup>x</sup>	Water Control (Nc)		Test Procedure (Nd)	
			15g in 1.5l water	
N	-		0	0
-1	-		-	-
-3	>330	>330	-	
-4	72	52	-	
Mean	6.20E+06		-	
Lg	6.79		<0.10	
Nts (count remaining on disc)	65		0	
Log Reduction (R)			>6.69	

**Escherichia coli ATCC 10536**

10 <sup>x</sup>	Water Control (Nc)		Test Procedure (Nd)	
			15g in 1.5l water	
N	-		0	0
-1	-		-	-
-2	>330	>330	-	
-3	240	150	-	
Mean	1.95E+06		-	
Lg	6.29		<0.10	
Nts (count remaining on disc)	53		0	
Log Reduction (R)			>6.19	

**Enterococcus hirae ATCC 10541**

10 <sup>x</sup>	Water Control (Nc)		Test Procedure (Nd)	
			15g in 1.5l water	
N	-		<14	<14
-1	-		-	-
-3	>330	>330	-	
-4	64	48	-	
Mean	5.60E+06		1.40E+02	
Lg	6.75		<2.15	
Nts (count remaining on disc)	>100		0	
Log Reduction (R)			>4.60	

**pH 11.06.**

**Note:**

Viable counts of 1-14 (below the lower limit) are expressed as  $<1.4 \times 10^2$  (<2.15 Log)

Viable counts of 0 are expressed as < 0.10 Log

Viable counts >330 for bacteria and yeasts and >165 for mould (higher than the upper limit) are expressed as  $> 3.3 \times 10^5$  (>5.52 log) or  $> 1.65 \times 10^5$  (>5.22 log)

Nts counts of >100 are expressed as >100

**Method Verification:**

<b>For Each Test:</b>	
The mean counts used for calculation of N, Nc, Nd, NC and NT are between 14 and 330 for bacteria and yeasts and 14 and 165 for moulds	Yes
$6.57 \leq N \leq 7.10$ for bacteria in dirty conditions and clean conditions (except <i>Pseudomonas aeruginosa</i> ) and for <i>Candida albicans</i> in clean conditions	Yes
$7.57 \leq N \leq 8.10$ for <i>Pseudomonas aeruginosa</i> in clean conditions	Yes
$5.57 \leq N \leq 6.10$ for <i>Candida albicans</i> in dirty conditions and <i>Aspergillus brasiliensis</i>	N/A
NC-Nc is not $> \pm 0.3$ log	Yes
NT-Nc is not $> \pm 0.3$ log	Yes
Nts is <100 cfu for active concentrations	Yes
Weighted mean quotient for N is $5 \leq N \leq 15$	Yes
Nc is sufficiently high to demonstrate a 4 lg reduction for bacteria and a 3 lg reduction for fungi	Yes

The sample detailed in this report will be retained for 1 month after report date, unless otherwise requested.

The results on this report refer to the items tested only.

Sample description (name of product) and batch references (batch number) stated are as provided by the customer.

This report shall not be reproduced in part or full without written permission from Melbec Microbiology Limited.

**\*\*End of test report\*\***

MTF 5.10.94 Issue 2

<b>Test Request Form</b> <b>EN 13697</b> Surface test for evaluation of bactericidal and/or fungicidal activity of chemical disinfectants	<b>Please send samples &amp; submissions forms to:</b>	Melbec Microbiology Limited Imperial House, Kingsway, Haslingden, Lancashire, BB4 4QJ
	<b>Email</b>	<a href="mailto:lab@melbecmicrobiology.co.uk">lab@melbecmicrobiology.co.uk</a>

<b>Company name:</b>	PVA HYGIENE	<b>PO number:</b>	2076
<b>Company address:</b>	PVA Hygiene	<b>Email:</b>	technical@pvahygiene
		<b>Telephone:</b>	07944 459099
<b>Requested By:</b>	<b>Jim Tylour</b>	<b>Date:</b>	12/12/22

**PLEASE NOTE:** 100ml sample size is recommended for EN 13697 tests. This is sufficient for multiple tests. Samples submitted in volumes larger than 100ml will incur hazardous product disposal fees or requests for collections (at client's cost) when testing is completed. The maximum acceptable sample volume is 5 litres. This is for manual handling purposes in addition to Health & Safety reasons. Please contact us in advance to arrange delivery of volumes >100ml.

Item No	Sample/Product Description	Batch No	Active ingredient / Biocide	Product dilution required*	Conditions (e.g. clean / dirty)	Contact time	Test temperature (standard or specify)	Bactericidal	Yeasticidal	Fungicidal
	<b>Example</b> <i>Surface disinfectant</i>	<i>12345</i>	<i>DDAC</i>		<i>Dirty</i>	<i>5 mins</i>	<i>As standard</i>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1	Everyday Virucidal Surface Disinfectant PDC	n/a	Benzalkonium Chloride	15g Sachet fully dissolved in 750ml water to give 2% wt/v	Clean	1 min and 5 minutes	20	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
								<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<i>Permissible test conditions with the standard (for general purpose products)</i>								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please advise if your product requires anything other than ambient storage.

**\*When instructing the test dilution, please remember to account (if needed) for the percentage of the active ingredient in the product (as supplied for testing purposes).** Solid products are prepared as a w/v solution. Liquid products are prepared as a v/v solution. Your product dilution for the test should be

**Test Request Form**

EN 13697

Surface test for evaluation of bactericidal and/or fungicidal activity of chemical disinfectants

**Please send samples & submissions forms to:**Melbec Microbiology Limited  
Imperial House,  
Kingsway,  
Haslingden,  
Lancashire, BB4 4QJ**Email**[lab@melbecmicrobiology.co.uk](mailto:lab@melbecmicrobiology.co.uk)

based on how you advise an end user to use the product. For products undergoing BPR (Biocidal Products Regulation) submission, please state 3 test concentrations, one of which should be in the active range and one of which should be in the inactive range (the final concentration can be of your choosing).

**Please add any special instructions (e.g. additional test organisms, preparation of test product) here:**

Keep powder samples dark and dry.

Use test solutions as soon as possible after dissolving.

Please record pH of test solutions.

Test vs streptococcus A in clean conditions

Dissolve 1 \* 15g sachet in 750l water (2% wt/v solution)

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : DISINFECTANT DETERGENT  
UFI : CPSM-W2HK-CE2H-H709 ((UFI for EU Use Only))  
Product code : A5:100,PA5:60, X5:100

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

##### 1.2.1. Relevant identified uses

Main use category : Professional use, Consumer use  
Use of the substance/mixture : DISINFECTANT/DETERGENT

##### 1.2.2. Uses advised against

Restrictions on use : Not for Oral Consumption, Not for Direct Application to Food Stuffs

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

##### Manufacturer

PVA HYGIENE  
UNIT 6 Havyat Business Park Havyat Road  
BS40 5PA Bristol – United Kingdom  
T +44 (0)1934 862 859  
[sales@pva-hygiene.co.uk](mailto:sales@pva-hygiene.co.uk)

#### 1.4. Emergency telephone number

Emergency number : 01934 862859 (Office Hours). For Immediate first aid advice in the UK call 111  
This product is registered with NPIS in the UK.

### SECTION 2: Hazards identification

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

##### Classification according to Regulation (EC) No. 1272/2008 [CLP] and GB CLP Regulations

Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 2	H319
Hazardous to the aquatic environment – Chronic Hazard, Category 3	H412

Full text of H- and EUH-statements: see section 16

##### Adverse physicochemical, human health and environmental effects

NOTE:- In Use Solutions of this Product are NOT CLASSIFIED.

#### 2.2. Label elements

##### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS07

Signal word (CLP) : Warning  
Hazard statements (CLP) : H315 - Causes skin irritation.  
H319 - Causes serious eye irritation.  
H412 - Harmful to aquatic life with long lasting effects.  
Precautionary statements (CLP) : P102 - Keep out of reach of children.  
P273 - Avoid release to the environment.  
P280 - Wear eye protection, protective gloves.  
P302+P352 - IF ON SKIN: Wash with plenty of water.



# DISINFECTANT DETERGENT

## Safety Data Sheet

According to GB and EU REACH and CLP Regulations

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P332+P313 - If skin irritation occurs: Get medical advice/attention.  
P337+P313 - If eye irritation persists: Get medical advice/attention.  
P402+P404 - Store in a dry place. Store in a closed container.  
P501 - Dispose of contents to national regulations.

### 2.3. Other hazards

This product does not contain any substances classified as PBT

This product does not contain any substances classified as vPvB.

Contains no PBT/vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP] and GB CLP Regulations
sodium carbonate	CAS-No.: 497-19-8 EC-No.: 207-838-8 EC Index-No.: 011-005-00-2 REACH-no: 01-2119485498-19	$\geq 70$	Eye Irrit. 2, H319
Citric Acid Mono Hydrate	CAS-No.: 5949-29-1 EC-No.: 691-328-9 REACH-no: 01-2119457026-42	$\geq 5 - < 8$	Eye Irrit. 2, H319
Alkyl (C12-14) Dimethylbenzylammonium Chloride	CAS-No.: 85409-22-9 EC-No.: 287-089-1 REACH-no: 01-2120754638-42	$\geq 1.5 - < 2$	Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410
Alcohols C9-11, Ethoxylated	CAS-No.: 68439-46-3	$\geq 0.5 - < 1.5$	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Aquatic Chronic 2, H411
Benzododecinium Chloride	CAS-No.: 139-07-1 EC-No.: 205-351-5 REACH-no: 01-2120831693-52_XXXX	$< 0.1$	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410

Full text of H- and EUH-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general

: If medical advice is needed, have product container or label at hand. For immediate First Aid advice in the UK, dial 111. When it is safe to do so, remove the victim immediately from the source of exposure. However, consideration should be given as to whether moving the victim will cause further injury.

First-aid measures after inhalation

: Unlikely without deliberate abuse. Move the affected person to the fresh air.

First-aid measures after skin contact

: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.

# DISINFECTANT DETERGENT

## Safety Data Sheet

According to GB and EU REACH and CLP Regulations

- First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
- First-aid measures after ingestion : Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention.

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

- Symptoms/effects : Neat product will cause irritation to eyes. Dilute solutions are unclassified, but may cause transient irritation. Eye contact should be treated as above.
- Symptoms/effects after inhalation : Unlikely route of exposure, but inhalation of dilute solution droplets may result in a sore throat.
- Symptoms/effects after skin contact : Prolonged or repeated exposure may result in irritation or redness, particularly on broken skin.
- Symptoms/effects after eye contact : Eye irritation.
- Symptoms/effects after ingestion : Unlikely route of exposure without deliberate abuse. If sachets are swallowed they may swell and could block the throat and GI tract. If Powder is ingested, irritation and burning to the mouth and GI tract may occur, a soapy taste may be reported. Ingestion of diluted solution is unlikely to cause long term harm, but a soapy taste may be reported together with mild irritation to the lips, throat and GI tract.

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

Rinse with plenty of water. Check for abrasion to the surface of the eye from powder particles.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

- Suitable extinguishing media : Use extinguishing agent suitable for surrounding fire.
- Unsuitable extinguishing media : Water.

### 5.2. Special hazards arising from the substance or mixture

- Fire hazard : The product is not flammable.
- Hazardous decomposition products in case of fire : On heating, irritating fumes may be produced.

### 5.3. Advice for firefighters

- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

- Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes.

#### 6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

### 6.2. Environmental precautions

Avoid release to the environment. Large scale spillages or uncontrolled discharges into water systems must be reported to the relevant Environment Agency.

### 6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Collect and place spillage in suitable containers. Seal the containers and apply labelling to identify the material and hazards. For disposal see section 13 of this SDS.
- Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 13. See sections 2,8,12,13 &14.

# DISINFECTANT DETERGENT

## Safety Data Sheet

According to GB and EU REACH and CLP Regulations

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Carefully comply with the instructions for use. Avoid contact with skin and eyes.  
Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a dry place. Store in a closed container.

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

DISINFECTANT/DETERGENT. Suitable for use on food contact surfaces with subsequent incidental food contact. Not suitable for direct disinfection of food stuffs.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### 8.1.1 National occupational exposure and biological limit values

DISINFECTANT DETERGENT	
United Kingdom - Occupational Exposure Limits	
Remark	No exposure limits known for ingredients.

##### 8.1.2. Recommended monitoring procedures

No additional information available

##### 8.1.3. Air contaminants formed

No additional information available

##### 8.1.4. DNEL and PNEC

No additional information available

##### 8.1.5. Control banding

No additional information available

#### 8.2. Exposure controls

##### 8.2.1. Appropriate engineering controls

###### Appropriate engineering controls:

Ensure good ventilation of the work station.

##### 8.2.2. Personal protection equipment

###### Personal protective equipment:

Safety glasses. Gloves.

###### Personal protective equipment symbol(s):



###### 8.2.2.1. Eye and face protection

###### Eye protection:

Safety glasses. In normal use eye protection is not required. During manufacture and packing operations, eye protection is recommended. Refer to EN166 to select appropriate level of protection.

# DISINFECTANT DETERGENT

## Safety Data Sheet

According to GB and EU REACH and CLP Regulations

### 8.2.2.2. Skin protection

#### Hand protection:

During normal use gloves are not required. During manufacture and packing operations, the use of gloves with a breakthrough time >60 minutes is recommended. Refer to EN374 to select appropriate level of protection. Rubber and PVC gloves are recommended.

### 8.2.2.3. Respiratory protection

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. Note:- This would be very unusual in normal use.

### 8.2.2.4. Thermal hazards

No additional information available

### 8.2.3. Environmental exposure controls

#### Other information:

The PPE indicated in this SDS is not a COSHH assessment. It represents the PPE that should be considered for the neat product at all stages of the products life cycle, including manufacture, packing, distribution, use and disposal. Use solutions are unclassified, but for these we recommend use of gloves as minimum PPE.

## SECTION 9: Physical and chemical properties

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

Physical state	: Solid
Appearance	: Powder.
Colour	: Orange.
Odour	: odourless.
Odour threshold	: No data available
pH	: No data available
pH solution	: 10 – 11.5 @1%
Relative evaporation rate (butylacetate=1)	: Not applicable.
Melting point	: Not applicable
Freezing point	: Not applicable
Boiling point	: Not applicable
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: Not applicable
Flammability (solid, gas)	: Not Flammable
Vapour pressure	: Not applicable
Relative vapour density at 20°C	: Not applicable
Relative density	: Not applicable
Density	: 0.5 – 1 g/cm <sup>3</sup>
Solubility	: Completely soluble in water.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: No data available
Explosive properties	: Product is not explosive.
Oxidising properties	: Not oxidising.
Explosive limits	: Not applicable

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

# DISINFECTANT DETERGENT

## Safety Data Sheet

According to GB and EU REACH and CLP Regulations

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Store away from moisture in a closed container.

### 10.5. Incompatible materials

Strong acids. Oxidising agents. Do not mix with Bleach or products containing Sodium Hypochlorite, this could result in dangerous heating of the solution.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Acute toxicity (oral) : Not classified  
Acute toxicity (dermal) : Not classified  
Acute toxicity (inhalation) : Not classified

#### Alkyl (C12-14) Dimethylbenzylammonium Chloride (85409-22-9)

LD50 oral rat	≈ 344 ml/kg
LD50 dermal rat	> 2000 ml/kg

#### Alcohols C9-11, Ethoxylated (68439-46-3)

LD50 oral rat	300 – 2000 ml/kg
LD50 dermal rat	> 2000 ml/kg

Skin corrosion/irritation : Causes skin irritation.  
Serious eye damage/irritation : Causes serious eye irritation.  
Respiratory or skin sensitisation : Not classified  
Germ cell mutagenicity : Not classified  
Carcinogenicity : This mixture is not classified as a carcinogen.  
Reproductive toxicity : This mixture has no reproductive/foetal harm classifications and is not expected to be a risk to expectant mothers.  
STOT-single exposure : Not classified  
STOT-repeated exposure : Not classified  
Aspiration hazard : Not classified

#### DISINFECTANT DETERGENT

Viscosity, kinematic	Not applicable
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#### sodium carbonate (497-19-8)

Viscosity, kinematic	Not applicable
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## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : Normal use solutions of this product are not classified for environmental harm.  
Hazardous to the aquatic environment, short-term (acute) : Not classified  
Hazardous to the aquatic environment, long-term (chronic) : Harmful to aquatic life with long lasting effects.  
Not rapidly degradable

# DISINFECTANT DETERGENT

## Safety Data Sheet

According to GB and EU REACH and CLP Regulations

Alkyl (C12-14) Dimethylbenzylammonium Chloride (85409-22-9)	
LC50 - Fish [1]	≈ 0.791 ml/l Rainbow Trout
EC50 - Crustacea [1]	≈ 0.0164 ml/l Water flea
EC50 72h - Algae [1]	≈ 0.00785 mg/l Green Algae

Alcohols C9-11, Ethoxylated (68439-46-3)	
LC50 - Fish [1]	1 – 10 mg/l
EC50 - Crustacea [1]	1 – 10 g/l
EC50 72h - Algae [1]	1 – 10 mg/l

### 12.2. Persistence and degradability

DISINFECTANT DETERGENT	
Persistence and degradability	The Surfactants and Chelants used in this mixture are Biodegradable.

### 12.3. Bioaccumulative potential

DISINFECTANT DETERGENT	
Bioaccumulative potential	Not expected to Bioaccumulate.

### 12.4. Mobility in soil

DISINFECTANT DETERGENT	
Additional information	soluble in water

### 12.5. Results of PBT and vPvB assessment

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

### 12.6. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods : Disposal of this product must comply with local and national environmental legislation.  
Sewage disposal recommendations : Small volumes of use solution can be disposed of to sewage drains.

## SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.2. UN proper shipping name</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

# DISINFECTANT DETERGENT

## Safety Data Sheet

According to GB and EU REACH and CLP Regulations

ADR	IMDG	IATA	ADN	RID
<b>14.3. Transport hazard class(es)</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.4. Packing group</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
<b>14.5. Environmental hazards</b>				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available				

### 14.6. Special precautions for user

#### Overland transport

Not applicable

#### Transport by sea

Not applicable

#### Air transport

Not applicable

#### Inland waterway transport

Not applicable

#### Rail transport

Not applicable

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

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

##### REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

##### REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

##### REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

##### PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

##### POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

##### Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

##### Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

# DISINFECTANT DETERGENT

## Safety Data Sheet

According to GB and EU REACH and CLP Regulations

### Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

### 15.1.2. National regulations

GB REACH and CLP regulations.

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

### Indication of changes:

Inclusion of EU UFI code and additional comments in section 7.

### Abbreviations and acronyms:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant



# DISINFECTANT DETERGENT

## Safety Data Sheet

According to GB and EU REACH and CLP Regulations

Abbreviations and acronyms:	
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

Full text of H- and EUH-statements:	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
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.
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.
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.