



## 1 - IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

<b>1.1</b>	<b>Product identifiers</b> <b>Trade Name or designation</b>	DP1005 BioQuat
<b>1.2</b>	<b>Identification of Uses</b> <b>Uses advised against</b>	Agricultural Cleaner No specific uses are advised against
<b>1.3</b>	<b>Supplier</b>  <b>Telephone No.</b> <b>Fax No.</b> <b>Email</b>	Biolink Limited. Halifax Way Pocklington Ind. Est Pocklington York YO42 1NR +44 (0) 1759 303444 +44 (0) 1759 303158 <a href="mailto:info@biolinklimited.co.uk">info@biolinklimited.co.uk</a>
<b>1.4</b>	<b>Emergency Phone</b>	+44 (0) 1280 738605 (office hours only)

## 2 - HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

#### Classification according to 67/548/EEC or 1999/45/EEC as amended

C, N, R41, R38, 50/53

#### Classification in accordance to EC 1272/2008 as amended

#### PHYSICAL HAZARDS

Not Classified

#### HEALTH HAZARDS

Skin Irritant Category 2

H315 Causes Skin irritation

Eye Damage Category 1

H318 Causes serious eye damage

#### ENVIRONMENTAL HAZARDS

Aquatic Acute Category 1

H400 Very toxic to aquatic life

Aquatic Chronic Category 2

H411 Toxic to aquatic life with long lasting effects

#### Hazard summary

#### Physical hazards

Not Classified

#### Health hazards

Causes Skin irritation. Causes serious eye damage

#### Environmental hazards

Very toxic to aquatic life with long lasting effects

#### Specific hazards

Not known

#### Main symptoms

May cause irritation to the skin. Symptoms may include redness, discomfort, and rash. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Permanent eye damage including blindness could result.

**1.2 Label elements**

**Label in accordance with EC 1272/2008 as amended**

**Contains** QUATERNARY AMMONIUM COMPOUNDS 2.5%

**Hazard pictograms**



**Signal word**

Danger

**Hazard statements**

- H315 Causes Skin irritation
- H318 Causes serious eye damage
- H400 Very toxic to aquatic life
- H411 Toxic to aquatic life with long lasting effects

**Precautionary statements**

**Prevention**

- P273 Avoid release to the environment.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.

**Response**

- P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P302+ 352 IF ON SKIN: Wash with plenty of soap and water
- P332+313 If skin irritation or rash occurs: Get medical advice/ attention

**Storage**

N/A

**Disposal**

- P501 Dispose of contents/container in accordance with local regulations.

**Supplemental label information**

Not applicable

**1.3 Other hazards**

Not known

**3 - COMPOSITION/INFORMATION ON INGREDIENTS**

**3.2 Mixtures**

ALCOHOLS, C7-11, ETHOXYLATED		5-15%	
CAS-No.: 68439-46-3	EC No.:	EC Index No.:	Reach No.:
Classification (67/548/EEC)		Classification (EC 1272/2008)	
Xi, Xn, R22, R41		Acute Tox. 4-H302 Eye Dam. 1-H318	

QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-16-ALKYLDIMETHYL, CHLORIDES		2.5%	
CAS-No.: 68424-85-1	EC No.: 270-325-2	EC Index No.: 612-131-00-6	Reach No.:
Classification (67/548/EEC) C, Xn, N, R34, R22, R50		Classification (EC 1272/2008) Met. Corr. 1 - H290 Acute Tox. 4 - H302 Skin Corr. 1B - H314 Eye Dam. 1- H318 Aquatic acute 1 -H400 Aquatic chronic 1 - H410	

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

#### 4 - FIRST AID MEASURES

##### General Information

First aiders should wear suitable protective clothing.

##### 4.1 Description of first aid measures

###### Inhalation

Move the exposed person to fresh air at once. Get medical attention. Provide rest, warmth and fresh air. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen.

###### Ingestion

Move the exposed person to fresh air at once. Get medical attention. Provide rest, warmth and fresh air. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen.

###### Skin contact

Remove contaminated clothing. Wash off with plenty of water. Consult a doctor if symptoms persist.

###### Eye contact

Remove contaminated clothing. Wash off with plenty of water. Consult a physician if symptoms persist.

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

Skin irritation and discomfort. Corrosive damage to the eyes.

Contact dermatitis and/or allergic reaction from repeated exposure.

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

Rinse eye immediately with sterile saline solution.

Seek medical attention in case of ingestion, inhalation or contact with eyes.

If swallowed gastric irrigation with activated carbon

#### 5 - FIRE FIGHTING MEASURES

##### General Fire Hazards

##### 5.1. Extinguishing media

SUITABLE EXTINGUISHING MEDIA

Water spray, Dry powder, foam.

UNSUITABLE EXTINGUISHING MEDIA

None

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

UNUSUAL FIRE & EXPLOSION HAZARDS

In case of fire toxic gases may be released. (COx, NOx, HCl).

SPECIFIC HAZARDS

None noted.

##### 5.3. Advice for fire-fighters

SPECIAL FIRE FIGHTING PROCEDURES

Collect fire extinguishing water separately, do not allow to enter drains. Exceptionally large spillages should be notified to the appropriate authorities.

**PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS**

Wear self-contained breathing apparatus.

## 6 - ACCIDENTAL RELEASE MEASURES

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

Keep unnecessary people away. Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area.

### 6.2. Environmental precautions

Do not let product enter drains. Discharge into the environment must be avoided. Appropriate authorities should be notified in case of contamination of sewerage or surface water.

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

Prevent further leakage or spillage if safe to do so. If possible contain the spillage with adsorbent material, place in a suitable container and dispose of as described in section 13 of this safety data sheet.

Quats are incompatible with anionic compounds e.g. anionic surfactants. If large quantities are released into waste water collect in an appropriate container. Adjust with sodium lauryl sulphate solution (Concentration twice as high as the active ingredient in the waste water) to a mixture ratio of 1:1. Polluted surfaces can be decontaminated with a 10% sodium lauryl sulphate solution.

### 6.4. Reference to other sections

Personal protection –section 8.

Disposal considerations –Section 13.

## 7 - HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Ensure good ventilation when using this product, avoid inhalation of vapours and spray. Handle with care and avoid spilling, skin and eye contact. Do not handle broken packages without protective equipment. Follow instructions and ensure correct dilution of this product before use.

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

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep in original container

### 7.3. Specific end use(s)

Cleaner and sanitiser

## 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1. Control parameters

Not available

#### Biological limit values

#### Recommended monitoring procedures

Follow standard monitoring procedures.

#### Derived no-effect level (DNEL)

Not available

#### Predicted no effect concentrations (PNECs)

Not available

## 8.2 Exposure controls

**Appropriate Engineering controls**

No specific engineering measures are noted except that this product should be used in a well ventilated area.

**Individual protection measures, such as personal protective equipment**

In case of splashing where suitable protective equipment.

**General information**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday

**Respiratory equipment**

Where risk assessment shows air-purifying respirators are appropriate use a respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator.

**Hand protection**

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

**Full contact**

Material: Nitrile rubber

Minimum layer thickness: 0.6 mm

Break through time: >480 min

**Splash contact**

Material: Nitrile rubber

Minimum layer thickness: 0.2 mm

Break through time: >35 min

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an Industrial Hygienist familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

**Eye protection**

In case of splashing, wear safety goggles or face shield.

**Other protection**

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

**Hygiene measures**

DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Wash promptly with soap & water if skin becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke

**Environmental exposure controls**

Do not discharge into the watercourse or drains

## 9 - PHYSICAL AND CHEMICAL PROPERTIES

## 9.1. Information on basic physical and chemical properties

Appearance	
Physical State:	Liquid
Form:	Suspension
Colour	Clear green
Odour	Faint odour
pH	7-8
BP/BP Range	N/A
MP/MP Range	N/A
Relative Density	1-1.05
Solubility	Completely miscible in water

## 9.2. Other information

Not known

## 10 - STABILITY AND REACTIVITY

## 10.1 Reactivity

Not expected under normal conditions of use

## 10.2 Chemical stability

Stable under normal temperature conditions

## 10.3 Possibility of hazardous reactions

Not expected under normal conditions of use

## 10.4 Conditions to avoid

Avoid exposure to high temperatures or direct sunlight

## 10.5 Incompatible materials

Materials to avoid -strong acids or alkalis. Oxidising agents. Anionic compounds

## 10.6 Hazardous decomposition products

None, see section 5 for decomposition products under fire conditions

## 11 - TOXICOLOGICAL INFORMATION

## General information

## Information on likely routes of exposure

**Inhalation**

No specific symptoms noted

**Skin contact**

May cause irritation to the skin. Symptoms may include redness, discomfort, and rash.

**Eye contact**

Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

**Ingestion**

No specific symptoms noted, may cause irritation to soft tissue.

**Symptoms**

May cause irritation to the skin. Symptoms may include redness, discomfort, and rash. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

**11.1 Information on toxicological effects****Acute toxicity**

QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-16-ALKYLDIMETHYL, CHLORIDES	Oral	LD50	795 mg/kg (Rat)
	Dermal	ATEmix	> 5000 mg/kg (calculated)
ALCOHOLS, C7-11, ETHOXYLATED	Oral	LD50	>200-2000 mg/kg (Rat)

**Skin corrosion/irritation**

QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-16-ALKYLDIMETHYL, CHLORIDES	OECD 404	Corrosive (Rabbit)
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**Serious eye damage/eye irritation**

No data available, eye damage is assumed based on skin corrosive classification of the quaternary ammonium compounds

**Respiratory sensitisation**

Based on the available data not classified as a respiratory sensitiser

**Skin sensitisation**

QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-16-ALKYLDIMETHYL, CHLORIDES	OECD 406	Not sensitising (Guinea pig)
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**Germ cell mutagenicity**

Based on the available data not classified as a mutagen

**Carcinogenicity**

Based on the available data not classified as a carcinogen

**IARC Monographs. Overall Evaluation of Carcinogenicity**

Not listed

**Reproductive toxicity**

Based on the available data not classified as a reproductive toxic

**Specific target organ toxicity - single exposure**

Based on the available data not classified as a STOT SE

**Specific target organ toxicity - repeated exposure**

Based on the available data not classified as a STOT RE

**Aspiration hazard**

Based on the available data not classified as an aspiration hazard

**Mixture versus substance information**

No data available

**Other information**

Not available

**12 - ECOLOGICAL INFORMATION****12.1 Toxicity**

QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-16-ALKYLDIMETHYL, CHLORIDES		
Toxicity to fish	LC50 96 h	0.085 mg/l (rainbow trout)
Toxicity to aquatic invertebrates	EC50 48 h	0.016 mg/l <i>Daphnia magna</i> .
Toxicity to Algae	EC50 72 h	0.025 mg/l <i>P. subcapitata</i>
ALCOHOLS, C7-11, ETHOXYLATED		
Toxicity to fish	LC50 96 h	1-10 mg/l

**12.2 Persistence and degradability**

QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-16-ALKYLDIMETHYL, CHLORIDES	OECD 301 D	70% Activated Sludge
	COD	1130 mg/g

**12.3 Bioaccumulative potential****Partition coefficient n-octanol/water (log Kow)**

QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-16-ALKYLDIMETHYL, CHLORIDES	n-octanol/water	OECD 107	2.88
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**Further information**

Limited quantities:	5L
Expected quantities:	E1
Transport Category (Tunnel Restriction Code):	3 (E)
Hazard Identification Number:	90

**15 - REGULATORY INFORMATION****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

**Other regulations** The product is classified and labelled in accordance with EC directives or respective national laws. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.

**15.2 Chemical Safety Assessment**

**National regulations** Young people under 18 years old are not allowed to work with this product according to the EU Directive 94/33/EC on the protection of young people at work. Follow national regulation for work with chemical agents.

**15.2 Chemical safety assessment**

No Chemical Safety Assessment has been carried out.

**16 - OTHER INFORMATION****List of abbreviations**

CO Carbon Monoxide  
NO Nitrogen Oxide  
HCL Hydrochloric acid  
TWA Time weighted average  
STEL Short Term exposure limit  
DW Dry weight

**References****Information on evaluation method leading to the classification of mixture**

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

**Full text of any statements or R-phrases and H-statements under Sections 2 to 15**

C Corrosive  
Xn Harmful  
Xi Irritant  
N Dangerous to the environment  
R22 Harmful if swallowed  
R34 Causes burns  
R41 Risk of serious damage to eyes  
R38 Irritating to skin  
R50 Very toxic to aquatic organisms  
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment  
H290 May be corrosive to metals  
H302 Harmful if swallowed  
H314 Causes severe skin burns and eye damage  
H315 Causes Skin irritation

H318 Causes serious eye damage  
H400 Very toxic to aquatic life  
H410 Very toxic to aquatic life with long lasting effects  
H315 Causes Skin irritation  
H318 Causes serious eye damage  
H400 Very toxic to aquatic life  
H410 Very toxic to aquatic life with long lasting effects  
P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P302+ 352 IF ON SKIN: Wash with plenty of soap and water  
P332+313 If skin irritation or rash occurs: Get medical advice/ attention  
P501 Dispose of contents/container in accordance with local regulations.

**Training information** Follow training instructions when handling this material.

**Disclaimer**

Biolink cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment. The information in the sheet was written based on the best knowledge and experience currently available.