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**SAFETY DATA SHEET**

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**1 Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Product Name: **Polyquat Algaecide**  
Datasheet Number: SP302 1. 1. 0  
Product Part Number: SP302  
Chemical Name: Poly quaternary ammonium chloride in solution  
CAS No.: 25988-97-0

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

Water treatment

**1.3 Details of the supplier of the safety data sheet**

Name of Supplier: Total Pool Chemicals Ltd  
Address of Supplier: Unit 1, Pool Bank Business Park  
High Street, Tarvin  
Chester CH3 8JH  
UK  
Telephone: +44 (0)1829 740290  
Fax: +44 (0)1829 741855  
Responsible Person: Steve Carder  
Email: sales@totalpool.co.uk

**1.4 Emergency telephone number**

+44 (0)1829 740290 (Office Hours)

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**2 Hazards identification****2.1 Classification of the substance or mixture**

- Classification (REGULATION (EC) No 1272/2008) [CLP/GHS]
- Acute Tox. 4, H302
- Aquatic Acute 1, H400
- Aquatic Chronic 1, H410
- Classification (67/548/EEC, 1999/45/EC)
- Xn; R22
- N; R50/53
- Additional information: For full text of R-phrases and Hazard- and EU Hazard-statements: see section 16

**2.2 Label elements**

- Signal Word: Warning
- Symbols: GHS07, GHS09

**Hazard phrases**

- Harmful if swallowed.
- Very toxic to aquatic life with long lasting effects.



## 2 Hazards identification (....)

### Precautionary Phrases

- Keep out of reach of children.
- IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
- If medical advice is needed, have product container or label at hand.
- Avoid release to the environment.

### 2.3 Other hazards

- Marine pollutant

## 3 Composition/information on ingredients

### 3.1 Mixtures

Chemical Name	Concentration	CAS Number	EC Number	R/H Phrases*	Symbols	Index No.
Poly quaternary ammonium chloride in solution	30%	25988-97-0		H302, H400, H410 R22, R50/53	GHS07, GHS09 Xn, N	

\*See Section 16

## 4 First aid measures

### 4.1 Description of first aid measures

- If substance has got into eyes, immediately wash out with plenty of water for at least 15 minutes
- IF ON SKIN: Wash with plenty of soap and water.
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
- Get medical advice/attention.

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

- No information available

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

- Treat symptomatically

## 5 Fire-fighting measures

### 5.1 Extinguishing media

- In case of fire: use water, alcohol resistant foam or dry agent for extinction

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

- Not applicable
- See Section 10.6

### 5.3 Advice for firefighters

- Wear protective clothing as per section 8
- Wear Breathing Apparatus

## 6 Accidental release measures

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

- Wear protective clothing as per section 8



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## 6 Accidental release measures (....)

### 6.2 Environmental Precautions

- Do not allow to penetrate the ground/soil.
- Do not flush spilt material into any public water system

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

- Absorb spillage in inert material and shovel up
- Place in appropriate container
- Seal containers and label them
- Remove contaminated material to safe location for subsequent disposal

### 6.4 Reference to other sections

- See Section 7 & 8

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## 7 Handling and storage

### 7.1 Precautions for safe handling

- Do not get in eyes, on skin, or on clothing.
- Do not eat, drink or smoke when using this product.
- Wash thoroughly after handling.

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

- Store in a well-ventilated place. Keep container tightly closed.
- Keep cool.
- Avoid contact with alkalis (strong bases)
- Avoid contact with acid
- Incompatible with strong oxidizing substances
- Store in suitable plastic containers

### 7.3 Specific end use(s)

- No information available.

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## 8 Exposure controls/personal protection

### 8.1 Control parameters

Poly quaternaryammonium chloride in solution

- No exposure limits have been set for this substance

### 8.2 Exposure controls

- Engineering controls should be provided to prevent the need for ventilation

Occupational exposure controls

- Wear suitable protective clothing, including eye/face protection and gloves (PVC are recommended)
- When handling this substance, e.g. sampling, wear goggles giving complete eye protection
- No respiratory protection is required



Goggles



Gloves



Suit



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## 9 Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- Odour: Perceptible odour
- Appearance: yellow, Liquid
- pH 5-8 at 1 % concentration
- Boiling point >100 °C
- Vapour pressure <0.00025 Pa at 25 deg C
- Vapour density - not known
- Melting point <-15 °C
- Completely soluble in water
- Fat solubility - not known
- Specific gravity 1.16 g/cm<sup>3</sup>
- Flash point >100 deg C (CC)
- Evaporation rate - not known
- Viscosity 600-2000 centipoise

### 9.2 Other information

- No information available

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## 10 Stability and reactivity

### 10.1 Reactivity

- No information available

### 10.2 Chemical stability

- Decomposes above 160 °C

### 10.3 Possibility of hazardous reactions

- No information available

### 10.4 Conditions to avoid

- Avoid contact with oxidising substances
- Avoid contact with acids and alkalis
- Avoid overheating

### 10.5 Incompatible materials

- Incompatible with acids and alkalis
- Incompatible with strong oxidizing substances

### 10.6 Hazardous Decomposition Products

- Decomposition products may include hydrogen chloride
- Decomposition products may include nitrogen and carbon oxides

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## 11 Toxicological information

### 11.1 Information on toxicological effects

- LD50 (oral,rat) Female, 1672 mg/kg
- LD50 (oral,rat) Male, 2079 mg/kg
- LD50 (skin,rabbit) >2000 mg/kg

#### Inhalation

- No information available

#### Contact with skin

- Not hazardous

#### Contact with eyes

- Not hazardous



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## 11 Toxicological information (....)

### Ingestion

- No information available but must be considered harmful

### Carcinogenicity

- No evidence of carcinogenic effects

### Teratogenicity

- No information available

### Mutagenicity

- No information available
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## 12 Ecological information

### 12.1 Toxicity

- LC50 (rainbow trout) 0.27 mg/l (96 hr)
- EC50 (Daphnia magna) 0.14 mg/l (48 hr)

### 12.2 Persistence and degradability

- Not readily biodegradable

### 12.3 Bioaccumulation Potential

- Low bioaccumulation potential

### 12.4 Mobility in soil

- Large volumes may penetrate soil and contaminate groundwater

### 12.5 Results of PBT and vPvB assessment

- Not a PBT according to REACH Annex XIII

### 12.6 Other Adverse Effects

- Hazardous to the environment
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## 13 Disposal considerations

### 13.1 Waste treatment methods

- Disposal should be in accordance with local, state or national legislation
- Do not discharge into drains or the environment, dispose to an authorised waste collection point

### Classification

- The waste must be identified according to the List of Wastes (2000/532/EC)
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## 14 Transport information



Dangerous Substance    Marine Pollutant

14.1 UN Number  
3082

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## 14 Transport information (....)

### 14.2 UN Proper Shipping Name

Environmentally hazardous substance, liquid, n.o.s.  
(polyquaternary ammonium chloride in solution)

### 14.3 Transport hazard class(es)

### 14.4 Packing group

III

### 14.5 Environmental hazards

- Marine pollutant

### 14.6 Special precautions for user

- See Section 7

### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code

- Not applicable

## Other information

### Road/Rail (ADR/RID)

Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s.  
(polyquaternary ammonium chloride in solution)

ADR UN No.: 3082

ADR Hazard Class: 9

ADR Packing Group: III

Tunnel Code: E

### Sea (IMDG)

Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s.  
(polyquaternary ammonium chloride in solution)

IMDG UN No.: 3082

IMDG Hazard Class.: 9

IMDG Pack Group.: III

### Air (ICAO/IATA)

Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s.  
(polyquaternary ammonium chloride in solution)

ICAO Un No.: 3082

ICAO Hazard Class.: 9

ICAO Packing Group.: III

## 15 Regulatory information

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

- Refer to current CPL Regulations
- Refer to current EC Directive 82/501/EEC (the Seveso Directive)
- The List of Wastes (England) Regulations 2005 apply in the UK
- Refer to current ADR Regulations
- Refer to current IATA Regulations

### 15.2 Chemical Safety Assessment

## 16 Other information

Text of R and S phrase codes used in this safety data sheet:- H302: Harmful if swallowed.; H400: Very toxic to aquatic life.; H410: Very toxic to aquatic life with long lasting effects.; R22: Harmful if swallowed; R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.



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## 16 Other information (....)

The statements made herein are based on our best present experience and are intended to describe product safety requirements. They should not therefore be considered as a warranty of specific properties.