



SAFETY DATA SHEET

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

Product Name: **Winterising Algaecide**
Datasheet Number: SP322 1.0.0
Product Part Number: SP322
Chemical Name: Polymeric Quaternary ammonium compound and organic phosphonate

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

Pool / spa 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)

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

- Classification (REGULATION (EC) No 1272/2008) [CLP/GHS]
- Acute Tox. 4, H302
- Eye Irrit. 2, H319
- Aquatic Acute 1, H400
- Aquatic Chronic 1, H410
- Classification (67/548/EEC, 1999/45/EC)
- Xn; R22
- Xi; R36
- 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.
- Causes serious eye irritation.



2 Hazards identification (....)

- Very toxic to aquatic life with long lasting effects.

Precautionary Phrases

- Keep out of reach of children.
- Wear protective gloves/protective clothing/eye protection/face protection.
- IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- 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	23%	25988-97-0		H302, H400, H410 R22, R50/53	GHS07, GHS09 Xn, N	
Etidronic acid	9%	2809-21-4	220-552-8	H318 R41	GHS05 Xi	
Copper sulphate pentahydrate	4%	7758-99-8	231-847-6	H302, H319, H305 H400, H410 R22, R36/38, R50/53	GHS07, GHS09 Xn, N	029-004-00-0

*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

- Can cause damage to the eyes

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

- Gives off irritating or toxic fumes (or gases) in a fire.
- See Section 10.6



5 Fire-fighting measures (....)

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

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

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.

8 Exposure controls/personal protection

8.1 Control parameters

Poly quaternary ammonium chloride in solution

- No exposure limits have been set for this substance

Etidronic acid

- No exposure limits have been set for this substance

Copper sulphate pentahydrate

- 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)



8 Exposure controls/personal protection (....)

- When handling this substance, e.g. sampling, wear goggles giving complete eye protection
- No respiratory protection is required



Goggles



Gloves



Suit

9 Physical and chemical properties

9 .1 Information on basic physical and chemical properties

- Odour: Slight smell of amine
- Appearance: blue, Liquid
- pH 7-9 at 1 % concentration
- Boiling point >100 °C
- Vapour pressure - not known
- Vapour density - not known
- Melting point - not known
- Completely soluble in water
- Fat solubility - not known
- Specific gravity 1.10 g/cm³
- Flash point - not known
- Evaporation rate - not known
- Viscosity 550 mPa.s at 5 deg C, Viscosity 200 mPa.s at 25 deg C

9 .2 Other information

- Setting Point <-3 deg C

10 Stability and reactivity

10 .1 Reactivity

- No information available

10 .2 Chemical stability

- No information available

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
- Incompatible with reducing agents

10 .6 Hazardous Decomposition Products

- Decomposition products may include hydrogen chloride
- Decomposition products may include nitrogen and carbon oxides
- Decomposition products may include phosphorous compounds
- Decomposition products may include sulphur oxides



11 Toxicological information

11.1 Information on toxicological effects

- LD50 (oral, rat) >2000 mg/kg
- Irritation to eyes (rabbit) : Positive
- Irritation to skin (rabbit) : Negative

Inhalation

- No information available

Contact with skin

- Not hazardous

Contact with eyes

- Causes redness and irritation

Ingestion

- No information available but must be considered harmful

Carcinogenicity

- No evidence of carcinogenic effects

Teratogenicity

- No information available

Mutagenicity

- No information available
-

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

- Degrades abiotically
- 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
-

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)
-



14 Transport information



Dangerous Substance Marine Pollutant

14.1 UN Number
3082

14.2 UN Proper Shipping Name
Environmentally hazardous substance, liquid, n.o.s. (polyquaternary ammonium chloride)

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)		
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)		
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)		
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.; H305: Harmful if swallowed.; 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.; R22: Harmful if swallowed; R36/38: Irritating to eyes and skin; R41: Risk of serious damage to eyes; R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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.