

SAFETY DATA SHEET

Revision 9
MSDS0010

Summerclear

1. Identification of the substance/preparation and of the company/undertaking

1.1 Product Identifier Summerclear - Copper free algaecide

1.2 Relevant Identified uses of the substance or mixture and uses advised against
Uses: For the control of algae in swimming pool water

1.3 Details of the supplier of the safety data sheet
Company: Complete Pool Controls Ltd
Unit 2, The Park
Stoke Orchard
Bishops Cleeve
Gloucestershire GL52 7RS

Telephone: +44 (0) 8712 229081 Fax: +44 (0) 8712 229083
E-mail: sales@cpc-chemicals.co.uk

1.4 Emergency Telephone
Tel: +44 (0) 8712 229081 (office hours) +44 (0) 3712 229084 (outside of office hours)

2. Hazard Identification

2.1 Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008



Aquatic Chronic H410
Acute Tox.4 H302

2.2 Label elements
Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms: GHS09: GHS07

Signal word: Warning

Hazard determining components of labelling: Polyquaternary ammonium compound

Hazard statements: H302: Harmful if swallowed
H410: Very toxic to aquatic life with long-lasting effects

Precautionary statements: P264: Wash hands thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P273: Avoid release to the environment.
P301+330+331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P391: Collect Spillage
P501: Dispose of contents/container to national regulations.

2.3 Other Hazards
Results of PBT and vPvB assessment

PBT: Not applicable
vPvB: Not applicable

3. Composition/information on ingredients**3.2 Mixture*****Polyquaternary ammonium compound***

EC No	CAS	CLP Classification	Percent
687-444-4	25988-97-0	Aquatic Chronic 1 H410; Aquatic Acute 1 H400; Acute Tox.4 H302	>50 -≤75%

Contains: Mixture of listed substances with non hazardous additions.

4. First Aid measures**4.1 Description of first aid measures**

General information: Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Inhalation: Supply fresh air; consult doctor in case of complaints.

Skin contact: Immediately rinse with water. If skin irritation continues, consult a doctor.

Eye contact: DO NOT DELAY! Check for and remove any contact lenses. Rinse opened eye for several minutes under running water. Then consult a doctor.

Swallowing: DO NOT DELAY! Rinse out mouth and then drink plenty of water. Do not induce vomiting, call for medical help immediately. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms & effects: No further relevant information available.

Information for doctor: Treat symptomatically and supportively.

4.3 Indication of immediate medical attention and special treatment needed

Treatment: No further relevant information available.

5. Fire fighting measures**5.1 Extinguishing media:**

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

5.2 Special hazards arising from the substance or mixture

Exposure hazards: Formation of toxic gases is possible during heating or in case of fire.

5.3 Advice for fire-fighters

Protective equipment: Do not inhale explosion gases or combustion gases. In the event of fire, wear self-contained breathing apparatus. Wear appropriate body protection (full protective suit).

6. Accidental release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions: Ensure adequate ventilation. Wear protective clothing
Turn leaking containers leake side up to prevent the escape of liquid.

6.2 Environmental precautions

Environmental precautions: Do not allow to penetrate ground/soil.
Do not allow product to reach sewage system or any water course in the undiluted form.

6.3 Methods and materials for containment and cleaning up

Methods and materials: Absorb with liquid binding material (sand, acid/universal binders, sawdust).
Further Information: Send for recovery to disposal in suitable receptacles.

6.4 Reference to other sections

See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment
See Section 13 for disposal information

7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling: Avoid direct contact with the product in undiluted form.
Prevent formation of aerosols
Endure good ventilation/Exhaustion at the workplace
Information about fire: No special measures required.

7.2 Conditions for safe storage, including any incompatibilities.

Storage Requirements : Prevent any seepage into the ground.
Common Storage: Store away from foodstuffs and oxidising agents.
Further information: Protect from frost. Store in a banded area. Store in cool, dry conditions in well sealed receptacles.

7.3 Specific end uses

No further relevant information available.

8. Exposure control/personal protection

8.1 Control parameters

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. The lists valid during the making were used as basis.

8.2 Exposure controls

Personal Protective Equipment:

PPE: Select PPE appropriate for the operations taking place taking into account the product properties.

General Protective Measures: Do not eat, drink, smoke or sniff while working.
Wash hands before breaks and at the end of work.
Avoid close or long term contact with the skin.
Avoid contact with the eyes.
Do not inhales gases / fumes / aerosols.
Storing food in the workplace is strictly prohibited.

8. Exposure control/personal protection**8.2 Exposure controls**

Respiratory protection	Not necessary if room is well - ventilated. Use suitable respiratory protective device in case of insufficient ventilation.
Hand Protection:	The glove material has to be impermeable to the product/substance/preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. Glove material: The selection of suitable gloves does not only depend on the material but also on further marks of quality, and varies from manufacturer to manufacturer. As the product is a preparation of several substances the resistance of the glove material can not be calculated in advance and therefore to be checked prior to the application. Nitrile rubber, NBR Penetration time: The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.
Eye protection	Safety glasses. Goggles recommended during refilling.
Skin and body protection	Impervious protective clothing Body protection must be chosen depending on activity, possible exposure and product properties.

9. Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Form:	Liquid
Colour:	Blue
Odour:	Mild
pH - value (10 g/l)	5 - 8
Change in condition:	
Melting point/freezing point:	-15°C
Initial boiling point:	100°C
Auto ignition temperature:	Product is not self-igniting
Explosive properties:	Product does not present an explosion hazard.
Density at 20°C	1.15 g/cm ³
Water solubility:	Fully miscible
Partition coefficient: n-octanol/water:	-3.13 log POW

9.2 Other Information

NOTE: The physical data presented above are typical values and should not be construed as a specification.

10. Stability and reactivity

- 10.1 Reactivity**
Reactivity: No information available
- 10.2 Chemical stability**
Chemical stability: No decomposition if used and stored according to specifications.
- 10.3 Possibility of hazardous reactions**
Hazardous reactions: No dangerous reactions known
- 10.4 Conditions to avoid**
Conditions to avoid: No further relevant information available.
- 10.5 Incompatible materials**
Materials to avoid: Strong Oxidising agents.
- 10.6 Hazardous decomposition products**
Haz. Decomp. Products: Carbon monoxide and carbon dioxide
Hydrogen Chloride (HCl)
Nitrogen Oxides (Nox)
Halogenated compounds.

11. Toxicological Information

11.1 Information on toxicological effects
Acute Toxicity: Harmful if swallowed

LD/LC50 values relevant for classification:

25988-97-0 Polyquaternary ammonium compound

Route	Species	Test	Value	Units
Oral	Rat	LD50	1,672	mg/kg
Dermal	Rabbit	LD50	>2,000	

Primary irritant effect:

- Skin Corrosion: Based on available data, the classification criteria are not met
- Serious Eye Damage: Based on available data, the classification criteria are not met
- Respiratory Sensitisation: Based on available data, the classification criteria are not met
- Skin Sensitisation: Based on available data, the classification criteria are not met

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction).

- Germ Cell Mutagenicity: Based on available data, the classification criteria are not met
- Carcinogenicity: Based on available data, the classification criteria are not met
- Reprotoxicity: Based on available data, the classification criteria are not met
- STOT- single exposure: Based on available data, the classification criteria are not met
- STOT- repeated exposure: Based on available data, the classification criteria are not met
- Aspiration Hazard: Based on available data, the classification criteria are not met

12. Ecological Information

12.1 Toxicity

25988-97-0 Polyquaternary ammonium compound

Daphnia magna EC50 0.14 mg/kg

12.2 Persistence and degradability

Persistence and degradability: Easily biodegradable

12.3 Bioaccumulative potential

Bioaccumulative potential: Products not expected to bioaccumulate

12.4 Mobility in soil

Mobility in soil: No further relevant information available

12.5 Results of PBT and PvB assessment

PBT and PvB assessment: This product is not identified as a PBT/vPvB substance.

12.6 Other adverse effects

Toxic to aquatic organisms. Toxic to soil organisms.

Additional ecological information:

Water hazard class 2 (German Regulation)(self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

13. Disposal Considerations

13.1 Waste treatment methods

Recommended Hierarchy of controls:

- Minimise waste
- Reuse if not contaminated
- Recycle if possible or safe disposal (if all else fails)

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Contact waste processors for recycling information

Used, degraded or contaminated product may be classified as hazardous waste. Anyone classifying hazardous waste and determining its fate must be qualified in accordance with state and international regulations.

European waste catalogue (EWC)

Waste key numbers in accordance with the EWC are origin-referred defined.

Since this product is used in several industries, no waste key can be provided by the supplier. The waste key number should be determined in arrangement with your waste disposal partner or the responsible authority.

Uncleaned packaging

The container remains hazardous when empty. Continue to observe all precautions.

Containers, even those that are 'empty' may contain residues that can develop hazardous gases and vapours upon heating. Do not cut, drill, grind, weld or perform similar operations on or near empty containers.

Recommended cleansing agents:

Water, if necessary together with cleansing agents.

14. Transport Information

14.1 UN Number UN3082

14.2 UN proper shipping name

ADR: 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Polyquaternary ammonium compound)
IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Polyquaternary ammonium compound), MARINE POLLUTANT
IATA ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Polyquaternary ammonium compound),

14.3 Transport hazard class(es)



Class 9 Miscellaneous dangerous substances and articles.
Label: 9

14.4 Packaging Group III

14.5 Environmental hazards Product contains environmentally hazardous substances:
Polyquaternary ammonium compound.

Marine Pollutant: Yes Symbol (fish and tree)
Special marking ADR Symbol (fish and tree)
Special marking IATA Symbol (fish and tree)

14.6 Special precautions for user

Special precautions: Warning: Miscellaneous dangerous substances and articles.
Hazard ID No (Kemler Code) 90
EMS Number F-A, S-F
Stowage Category: A

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

IMDG: Not applicable

Additional Information

ADR / IMDG
Limited Quantities (LQ) 5L
Excepted Quantities (EQ) Code: E1
Maximum net quantity per inner packaging: 30ml
Maximum net quantity per outer packaging: 1000 ml
Transport category: 3
Tunnel Restriction: E
UN 'Model Regulation' 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Polyquaternary ammonium compound), 9, III

15. Regulatory information

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

Directive 2012/18/EU

Named dangerous substances - ANNEX 1	None of the ingredients is listed
Seveso category	E1
Qualifying quantity (tonnes for the application of lower tier requirements	100 t
Qualifying quantity (tonnes for the application of upper tier requirements	200 t

REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction:3

15.2 Chemical Safety Assessment

A chemical safety assessment has not been carried out for the substance or the mixture

16. Other information

Full text of H-statements referred to under sections 2 and 3

H302	Harmful if swallowed
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

This information is believed to be accurate and represents the best information currently available to us. However, we make no warranty or merchantability, or fitness for any particular use, or any other warranty, express or implied, with respect to this information, and we assume no liability resulting from use of this information. Users should make their own investigations to determine the suitability of the information for their particular needs and uses.

Further information

Restricted to professional users. Attention - Avoid exposure- obtain special instructions before use

█ Indicates updated section.