

SAFETY DATA SHEET

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

1.1 Product Identifier Copper Based Algicide

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

Uses: Algeacide

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

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E-mail: sales@cpc-chemicals.co.uk

1.4 Emergency Telephone

Tel: +44 (0) 8712 229081 (office hours) +44 (0) 1242 300271 (outside of office hours)

2. Hazard Identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Hazard Class	Hazard Category	Target Organs	Hazard Statements
Eye Damage	Category 1		H318
Aquatic Acute	Category 1		H400
Skin Irritation			H315

For the full text of the H statements mentioned in this section see Section 16.

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Hazard Symbol/Category of danger	Risk phrases
Irritant (Xi)	R36/38
Dangerous for the environment	R50/53

For the full text of the R phrases mentioned in this section see Section 16.

Most important adverse effects

Human Health: See section 11 for toxicological information
 Physical & Chemical Hazards: See section 9 for physicochemical information
 Potential environmental effects: See section 12 for environmental information

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard symbols:   

Signal word: Danger

Hazard statements:	H318	Causes serious eye damage
	H410	Very toxic to aquatic life with long lasting effects
	H315	Causes skin irritation

(continued on Page 2)

2. Hazard Identification**2.2 Label elements****Labelling according to Regulation (EC) No 1272/2008**

Precautionary statements:

Prevention:

P280: Wear protective gloves/protective clothing/eye protection/face protection

Reponse:

P101 If medical advice is needed, have product or label to hand.

P102 Keep out of reach of children

P103 read label before use

P273 Avoid release to the environment

P303+361+353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water

P305+351+338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing

P401 Store in accordance with local/national/ international regulations

P501 Dispose of contents / container in accordance with local/national/international regulations

Hazardous components which must be listed on the label

Copper Sulphate and Etidronic acid

2.3 Other Hazards

No other information is available

3. Composition/information on ingredients**3.1 Mixture**

Chemical nature: Viscous liquid

Chemical Name	Identification Numbers	Amount %
Polyquaternary ammonium compound	CAS No: 25988-97-0	25 - 50%
Copper sulphate pentahydrate	CAS No: 7758-99-8	10 - 25%
Etidronic Acid	CAS No: 2809-21-4	2.5 - 10%

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

General Advice: Take off all contaminated clothing immediately.

If Inhaled: In case of accident by inhalation; remove casualty to fresh air and keep at rest. If breathing is irregular or stopped, administer artificial respiration.

In case of skin contact: Wash off immediately with plenty of soap & water. If irritation appears seek medical advice

In case of eye contact: Rinse immediately with plenty of water, also under eyelids for at least 15 minutes. Remove contact lenses.

If swallowed: Clean mouth with water and drink plenty of water. Never give anything by mouth to an unconscious person. If swallowed, do not induce vomiting - seek medical advice. If a person vomits when lying on his back place him in the recovery position.

4. First Aid measures

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: No further information available
Effects: No further information available

4.3 Indication of immediate medical attention and special treatment needed

Treatment: Treat symptomatically
No further information available

5. Fire fighting measures

5.1 Extinguishing media:

Suitable extinguishing media: CO2, powder or water spray. Fight larger fires with water spray.
Unsuitable extinguishing media: No information available

5.2 Special hazards arising from the substance or mixture

Specific Hazards during fire:

5.3 Advice for firefighters

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

6. Accidental release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions: Use personal protective equipment. Keep people away from and upwind of spill/leak. Provide adequate ventilation. Avoid contact with skin and eyes. Do not breathe vapours. For personal protection see Section 8.

6.2 Environmental precautions

Environmental precautions: Do not flush into surface water or sanitary sewer system.
Avoid subsoil penetration

6.3 Methods and materials for containment and cleaning up

Methods and materials for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders) Keep in suitable closed containers for disposal.

Further Information: Treat recovered material as described in the section 'Disposal considerations'

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: Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin and eyes. Emergency eye wash fountains and emergency showers should be available in the immediate vicinity. Do not mix with other products in their concentrated form.

Hygiene measures: Keep away from food, drink and animal feeding stuffs. Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of the work day. Take off all contaminated clothing immediately. Provide adequate ventilation. Avoid contact with the skin and eyes.

7.2 Conditions for safe storage, including any incompatibilities.

Requirements for storage areas and containers: Prevent any seepage into the ground

Advice on protection against fire and explosion: No special measures required

Further information: Store in cool, dry conditions in well sealed receptacles

Advice on common storage: Keep away from food, drink and animal feedstuffs. Store away from metals. Store away from oxidising agents

Storage Temperature: No further information available

7.3 Specific end uses

Specific use(s) No information available

8. Exposure control/personal protection

8.1 Control parameters

This product does not contain any relevant quantities that have to be monitored in the workplace.

8.2 Exposure controls

Engineering measures

Refer to protective measures listed in sections 7 and 8

Personal protective equipment

Respiratory protection Advice: Not required

Hand protection

Advice: The glove material has to be impermeable to the product/the substance/preparation. Take note of the information given by the producer concerning permeability, break through times, and of special and of special working conditions (mechanical Protective gloves should be replaced at first sign of wear.

Eye protection Advice: Tightly fitting safety goggles

Skin and body protection

Advice: acid resistant protective clothing

Environmental exposure controls

General advice: Do not flush into surface water or sanitary sewer systems

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

Form:	Viscous liquid
Colour:	Green
Odour:	Amine-like
Odour Threshold:	Currently we do not have any information from our supplier about this.
pH @ 20°C:	<1
Solidification point	Currently we do not have any information from our supplier about this.
Boiling point:	Currently we do not have any information from our supplier about this.
Flash point:	not applicable
Evaporation rate:	Currently we do not have any information from our supplier about this.
Flammability (solid, gas)	does not ignite
Upper explosion limit:	not applicable
Lower explosion limit:	not applicable
Vapour pressure:	Currently we do not have any information from our supplier about this.
Relative vapour density:	Currently we do not have any information from our supplier about this.
Density @ 20°C:	1.2 g/cm ³
Water solubility:	Completely soluble
Partition coefficient:n-octanol/water:	Currently we do not have any information from our supplier about this.
Ignition temperature:	Currently we do not have any information from our supplier about this.
Thermal decomposition:	Currently we do not have any information from our supplier about this.
Viscosity, kinematic:	Currently we do not have any information from our supplier about this.
Explosive properties:	Currently we do not have any information from our supplier about this.
Oxidising properties:	Currently we do not have any information from our supplier about this.

9.2 Other Information

No further information available

10. Stability and reactivity**10.1 Reactivity**

Advice:

10.2 Chemical stability

Advice:

No decomposition if stored and applied as directed

10.3 Possibility of hazardous reactions

Hazardous reactions:

No dangerous reactions known

10.4 Conditions to avoid

Conditions to avoid

No information available

10.5 Incompatible materials

Materials to avoid

Strong bases
Finely powdered metals
Strong oxidising agents**10.6 Hazardous decomposition products**Carbon monoxide and carbon dioxide
Nitrogen oxide

11. Toxicological Information**11.1 Information on toxicological effects**

Product: Polyquaternary ammonium compound **CAS No:** 25988-97-0
Irritation
Skin

Value type LD50
 Value >5,000 mg/kg
 Species rat

Eyes

Value type LD50
 Value >5,000 mg/kg
 Species rat

Sensitisation

Species Rat
 Result: not sensitizing

Product: Copper Sulphate **CAS No:** 7758-98-7

Irritation
Skin

Value type LD50
 Value >5,000 mg/kg
 Species rat

Eyes

Value type LD50
 Value >5,000 mg/kg
 Species rat

Sensitisation

Species Rat
 Result: not sensitizing

Further information

Other relevant toxicity: All numerical values for acute toxicity are calculated on the pure substances.
 Handle in accordance with good industrial hygiene and safety practise.

12. Ecological Information**12.1 Toxicity****Acute toxicity**
Toxicity to Fish

Remarks: Toxic

Toxicity to daphnia and other aquatic invertebrates

Remarks: Toxic

algae

Remarks: Toxic

12.2 Persistence and degradability**Persistence**

Remarks: no data available

Biogradability

Remarks: Currently we do not have any information from our supplier about this.

12. Ecological Information**12.3 Bioaccumulative potential****Bioaccumulation**

Remarks: Bioaccumulation is not expected

12.4 Mobility in soil**Mobility**

Remarks: Not expected to absorb on soil

12.5 Results of PBT and PvB**Results of PBT and PvB assessment**

Remarks: Not classified vPvB substance: Non-classified PBT substance

12.6 Other adverse effects**Additional ecological information**Remarks:
Water hazard class 1 (German regulation)self assessment. Slightly hazardous for water.**13. Disposal Considerations****13.1 Waste treatment methods**

Product: Disposal together with normal waste is not allowed. Special disposal required according to local regulations. Do not let product enter drains.

Contaminated packaging: Empty contaminated packaging's thoroughly. They can be recycled after thorough and proper cleaning. Packagings that cannot be cleaned are to be disposed of in the same manner as the product.

European Waste Catalogue No: No waste code according to the European Waste Catalogue can be assigned for this product, as the intended use dictates the assignment. The waste code is established in consultation with the regional waste disposer.

14. Transport Information**14.1 UN Number** 1760**14.2 UN proper shipping name**

ADR: CORROSIVE LIQUID, N.O.S. (disphosphonic acid)

IMDG: CORROSIVE LIQUID, N.O.S. (disphosphonic acid)

ICAO: CORROSIVE LIQUID, N.O.S. (disphosphonic acid)

**14.3 Transport hazard class(es)**ADR Class 8
(Label, classification code; Hazard ID; Tunnel 8;C1;80; (E)IMDG: 8
(Label, Classification Code; Hazard ID;) 8, F-A,S-BICAO: 8
(Labels; EmS) 8, F-A,S-B**14.4 Packaging Group**

ADR: III

RID: III

IMDG: III

Trade Name: Swimfresh Copper Based Algicide

14. Transport Information

14.5 Environmental hazards

Labelling according to 5.2.1.8 ADR: yes
Labelling according to 5.2.1.8 RID: no
Labelling according to 5.2.1.8 IMDG: no
Classification as environmentally hazardous according to 2.9.3 IMDG: no

14.6 Special precautions for user

Note: Not applicable

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

IMDG: Not applicable

15. Regulatory information

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

15.2 Chemical Safety Assessment

Currently we do not have any information from our supplier about this.

16. Other information

Full text of R-phrases referred to under sections 2 and 3

R22 Harmful if swallowed
R36/38 Irritating to eyes and skin
R41 Risk of serious damage to eyes
R50/55 Very toxic to aquatic organisms, with long lasting effects

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

H302 Harmful if swallowed
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

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16. Other information**• Abbreviations and acronyms:**

ADR:	Accord europeen sur le transport des marchandises dangereuse par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID:	Reglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations concerning the International Carriage of Dangerous Goods by Road)
IMDG:	International Maritime Code for Dangerous Goods
IATA:	International Air Transport Association
IATA-DGR	Dangerous goods Regulations by the 'International Air Transport Association' (IATA)
ICAO:	International Civil Aviation Organization
GHS:	Globally Harmonized System of Classification and Labelling of Chemicals
EINECS	European Inventory of Existing Commercial Chemical Substances.
CAS:	Chemicals Abstracts Service (division of the Americal Chemical Society)
LC50:	Lethal concentration, 50 percent
LD50:	Lethal dose, 50 percent

Revision	Date	By	Amendment
1	19/02/07	Linda Brueford	
2	15/09/09	Linda Brueford	Sections 2 & 3 swapped round to comply with REACH, change from PG I to PG II, inclusion of new Environmentally Hazardous Mark for transport for packagings larger than 5kg and other minor editorial amendments.
3	14/03/11	Linda Brueford	GHS label elements added, updated to European requirements and other minor editorial amendments