

1. Identification of the substance/preparation and of the company/undertaking**1.1 Product Identifier** Ultimate Algicide**1.2 Relevant Identified uses of the substance or mixture and uses advised against**

Uses: For the control of severe and persistent Algae in swimming pool water.

1.3 Details of the supplier of the safety data sheetCompany: 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) 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**

Acute Tox. 4 H302

Skin Corr. 1B H314

Aquatic Chronic 2 H411

Aquatic Acute 1 H400

Aquatic Chronic 1 H410

For the full text of the H statements 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 toxicological information.

Potential environmental effects: See section 12 for toxicological information.

2.2 Label elements**Labelling according to Regulation (EC) No 1272/2008**Hazard statements: H302: Harmful if swallowed.
H314: Causes severe skin burns and eye damage.
H410: Very toxic to aquatic life with long lasting effects.

Signal word: Danger

Hazard pictograms GHS05: Corrosion
GHS07: Exclamation mark
GHS09: Environmental

Precautionary statements:

P270: Do not eat, drink or smoke when using this product.
P273: Avoid release to the environment
P280: Wear protective gloves/protective clothing/eye protection/face protection.

[Cont...]

Trade Name: Ultimate Algicide

2. Hazard Identification...cont

P301+330+331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P305+P351+P338 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.
P303+ P 361+ P 353: Rinse skin with water

2.3 Other Hazards PBT: This product is not identified as a PBT/vPvB substance.

3. Composition/information on ingredients

3.1 Mixtures

Hazardous ingredients:

QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C8-18-ALKYLDIMETHYL, CHLORIDES

EINECS	CAS	PBT / WEL	CLP Classification	Percent
264-151-6	63449-41-2	-	Acute Tox. 4: H312; Acute Tox. 4: H302; Skin Corr. 1B: H314; Aquatic Acute 1: H400	10-30%

COPPER SULPHATE PENTAHYDRATE

231-847-6	7758-99-8	-	Acute Tox. 4: H302; Skin Irrit. 2: H315; Eye Irrit. 2: H319; Aquatic Chronic 1: H410	10-30%
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Contains: Mixture of listed substances with non hazardous additions

4. First Aid measures

4.1 Description of first aid measures

Skin contact: Wash immediately with plenty of soap and water.

Eye contact: Check for and remove any contact lenses. Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 15 - 20 minutes while holding the eyelid(s) open. Get medical attention.

Ingestion: Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Transfer to hospital as soon as possible.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor

4.2 Most important symptoms and effects, both acute and delayed

Skin contact: There may be mild irritation at the site of contact.

Eye contact: There may be irritation and redness.

Ingestion: There may be soreness and redness of the mouth and throat. There may be difficulty swallowing. Nausea and stomach pain may occur. There may be vomiting.

Inhalation: Absorption through the lungs can occur causing symptoms similar to those of ingestion.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure

4.3 Indication of immediate medical attention and special treatment needed

Treatment Eye bathing equipment should be available

5. Fire fighting measures

5.1 Extinguishing media:

Suitable 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

Specific Hazards : In combustion emits toxic fumes.

[Cont....]

Trade Name: Ultimate Algicide Concentrate

5. Fire fighting measures

5.3 Advice for fire-fighters

Protective equipment: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

Further Information: Collect contaminated fire extinguishing water separately.

6. Accidental release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions: Refer to section 8 of SDS for personal protection details. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid.

6.2 Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding

6.3 Methods and materials for containment and cleaning up

Methods and materials: Clean-up should be dealt with only by qualified personnel familiar with the specific substance. Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

6.4 Reference to other sections

For personal protection see section 8

7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air.

7.2 Conditions for safe storage, including any incompatibilities.

Storage conditions : Store in a cool, well ventilated area. Keep container tightly closed.

Suitable Packaging: Store in correctly labelled containers

7.3 Specific end uses

No information is available.

8. Exposure control/personal protection

8.1 Control parameters

Workplace Exposure Limits: No data available

DNEL / PNEC values: No data available.

8.2 Exposure controls

Engineering measures Ensure there is sufficient ventilation of the area. The floor of the storage room must be impermeable to prevent the escape of liquids

Personal protective equipment

Respiratory protection Self contained breathing apparatus must be available in case of emergency.

Hand protection Wear protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and standard EN 374.

Eye protection Wear safety glasses approved to standard EN 166. Provide eye station

Skin protection Protective clothing

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

Form: Liquid
Colour: Dark blue
Odour: Characteristic

Water solubility: Miscible
Relative density: 1.110
pH: 7.5 - 8.5

9.2 Other Information No further information available

10. Stability and reactivity**10.1 Reactivity**

Reactivity Stable under recommended transport or storage conditions.

10.2 Chemical stability

Chemical stability Stable under normal conditions

10.3 Possibility of hazardous reactions

Hazardous reactions Hazardous reactions will not occur under normal transport or storage conditions.
Decomposition may occur on exposure to conditions or materials listed below.

10.4 Conditions to avoid

Conditions to avoid Heat

10.5 Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids. Strong bases.

10.6 Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes.

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

Route	Species	Test	Value	Units
Oral	Rat	LD50	795	mg/kg
Dermal	Rat	LD50	1560	mg/kg

Hazardous ingredients:

QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C8-18-ALKYLDIMETHYL, CHLORIDES

IVN	MUS	LD50	16	mg/kg
ORL	MUS	LD50	150	mg/kg

COPPER SULPHATE PENTAHYDRATE

DERMAL	RAT	LD50	>2000	mg/kg
ORAL	RAT	LD50	482	mg/kg

Relevant hazards for substance:

Hazard	Route	Basis
Acute toxicity (ac. tox. 4)	ING	Hazardous: calculated
Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated

11. Toxicological Information**11.1 Information on toxicological effects****Symptoms / routes of exposure**

Skin contact: There may be mild irritation at the site of contact.
Eye contact: There may be irritation and redness.
Ingestion: There may be soreness and redness of the mouth and throat. There may be difficulty swallowing. Nausea and stomach pain may occur. There may be vomiting.
Inhalation: Absorption through the lungs can occur causing symptoms similar to those of ingestion.
Delayed / immediate effects: Immediate effects can be expected after short-term exposure

12. Ecological Information**12.1 Toxicity****Ecotoxicity values:**

Species	Test	Value	Units
DAPHNIA	48H EC50	0.03	mg/l

12.2 Persistence and degradability

Persistence and degradability No data available

12.3 Bioaccumulative potential

Bioaccumulative potential No bioaccumulation potential.

12.4 Mobility in soil

Mobility Readily absorbed into soil.

12.5 PBT and PvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6 Other adverse effects

Other adverse effects: Toxic to aquatic organisms. Toxic to soil organisms.

12.2 Persistence and degradability

Not biodegradable

12.3 Bioaccumulative potential

No Bioaccumulation potential

12.4 Mobility in soil

No data available

12.5 Results of PBT and PvB assessment

not a PBT substance

12.6 Other adverse effects

No data available

13. Disposal Considerations**13.1 Waste treatment methods****Disposal operations:**

Transfer to a suitable container and arrange for collection by specialised disposal company.

NB:

The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

14. Transport Information

14.1 UN Number	UN3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,2',2"-NITRILOTRISETHANOL, COPPERSALT; QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C8-18-ALKYLDIMETHYL, CHLORIDES)
14.3 Transport hazard class(es)	9
14.4 Packing group	III
14.5 Environmental hazards	
Environmentally hazardous:	Yes
Marine Pollutant:	Yes
14.6 Special precautions for user	
Special precautions:	No special precautions
Transport category:	3
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	
Transport in bulk:	Not applicable

15. Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for this substance or mixture.**
A chemical safety assessment has not been carried out for the substance or the mixture by the supplier
- 15.2 Chemical Safety Assessment**
No data available

16. Other information

Full text of H-statements referred to under sections 2 and 3
H302: Harmful if swallowed.
H312: Harmful in contact with skin.
H314: Causes severe skin burns and eye damage.
H315: Causes skin irritation.
H319: Causes serious eye irritation.
H400: Very toxic to aquatic life.
H410: Very toxic to aquatic life with long lasting effects.

Further information

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

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.

Rev 1

Indicates updated section