

Material Safety Data Sheet
According to 91/155 EEC

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

• Trade Name:	Ultimate Algicide Concentrate
• Other names	Copper Sulphate Mixture
• Intended use of chemical	The prevention and cure of algae
• Manufacturer/Supplier	Complete Pool Controls Ltd, Unit 2, The Park, Stoke Orchard, Bishops Cleeve, Gloucestershire, GL52 7RS. Tel: +44 (0) 8712 229081 Fax: +44 (0) 8712 229083

2. Composition/information on ingredients

• Chemical characterization:	Mixture of substances listed below with no hazardous additions.	
• CAS No. Description	7758-987 Copper Sulphate	<20%
• EINECS Number:	7758 - 98 - 7	
• CAS No. Description	Potassium Hydroxide	<1%
• EINECS Number:	1310-58-3	

3. Hazard Identification

• **Hazard description**



Xi



N

• **Hazard information concerning particular hazards for human and the environment**

R36/37/38 Irritating to eyes, respiratory system and skin.

R51/53 Toxic to aquatic organisms may cause long-term adverse effects in the aquatic environment

Trade Name: Ultimate Algicide Concentrate

4. First Aid measures

- **After inhalation:** If inhaled, remove individual to fresh air. If breathing is difficult have a trained person administer oxygen. Seek medical professional attention immediately.
- **After skin contact:** If contact with skin occurs, wash off excess chemical with soap and flush with cool water for at least 15 minutes. If skin irritation persists, seek professional medical attention immediately
- **After eye contact:** If contact with eyes occurs, immediately flush contaminated eye(s) with cool, gently flowing water for at least 20 minutes, holding eyelid(s) open. Take care not to splash contaminated water into the non-affected eye. Seek professional medical attention immediately.
- **After Ingestion:** If swallowed, drink large amounts of water or milk. DO NOT INDUCE VOMITING. Avoid alcohol. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. Seek professional medical attention immediately.

5. Fire fighting measures

- **Special extinguishing media:** Use media that is suitable for surrounding fire, i.e. water, dry powder, carbon dioxide
- **Special exposure hazards:** Oxides of sulphur, copper fumes
- **Special protective equipment:** Fire fighters should wear full protective clothing and self-contained breathing apparatus (SCBA).

6. Accidental release Measures

- **Personal Protection** Wear suitable chemical resistant clothing as detailed in section 8.
- **Environmental Protection** Do not allow to penetrate the ground/soil. Do not allow to enter sewers/surface or ground water.
- **Methods for cleaning:** Contain and absorb the spillage with inert material such as sand. Sweep up the spill and place in clean, dry plastic containers including any contaminated soil. Dispose of product in accordance with relevant local and national waste disposal legislation.

7. Handling and storage

- **Personal Protection** DO NOT MIX WITH OTHER CHEMICALS. Incompatible with strong bases, magnesium. Mix only with water.
- **Storage** Keep this product in original, closed container when not in use. Store in a cool, dry, well-ventilated area

Trade Name:	Ultimate Algicide Concentrate
--------------------	--------------------------------------

8. Exposure control/personal protection

- **Exposure control limits and source:**

	8hr TWA		15min STEL		
	ppm	mg/m ³	ppm	mg/m ³	
Copper (Dusts and mists)	-	1	-	2	EH40
Copper (Fume)	-	0.2	-	-	EH40
Potassium Hydroxide	-	-	-	2	EH40

- **Respiratory Protection**

Where mist emissions are possible, suitable respiratory protection should be used

- **Hand Protection**

Wear suitable chemical resistant gloves



- **Eye Protection**

Wear appropriate safety goggles



- **Skin Protection**

Wear appropriate safety clothing

9. Physical and chemical properties

- **Appearance at 20oC** Clear blue/green liquid
- **Odour** Faintly acidic
- **Density at 20oC** 1.18 gml⁻¹
- **pH** 2.4
- **Viscosity** 15 cps @15 OC
- **Flash Point** N/A
- **Solubility in water** Fully miscible.

10. Stability and reactivity

- **Conditions to avoid** High temperature. Poor ventilation. Contamination.
- **Materials to avoid** Other swimming pool/spa chemicals in their concentrated forms. Bases and strong oxidising agents.
- **Hazardous decomposition products** Copper oxide and sulphur above 40 °C.

Trade Name: Ultimate Algicide Concentrate

11. Toxicological Information

- **Inhalation** Mists can cause ulceration of nasal systems.
- **Ingestion** May cause systemic copper poisoning.
- **Skin** Irritation and redness.
- **Eyes** Irritation of eye with possible clouding of the cornea, ulceration, conjunctivitis.
- **Toxicity** Acute Dermal LD50: >50000 mgkg⁻¹ (rabbit)
Oral LD50: >3501 mgkg⁻¹ (rat)

12. Ecological Information

- **Etotoxicity** This product may be toxic to fish and aquatic organisms. Do not flush to sewer without prior consent from the relevant water authority. Keep product from entering waterways and watersheds.

13. Disposal Considerations

- **Substance** DO NOT put product, spilled product or filled or partially filled containers into the waste. Disposal of unused, uncontaminated product is regulated according to local and national disposal regulations.
- **Container** DO NOT re-use container. Rinse thoroughly before discarding.

14. Transport Information

- **U N No** UN1760
- **Proper shipping name** Corrosive Liquid, N.O.S. (copper sulphate/potassium hydroxide)
- **Class/division** 8
- **Packing group** III
- **Hazard I D No** 80
- **EAC** 2X
- **Pollutant** May be considered a marine pollutant

Trade Name:	Ultimate Algicide Concentrate
--------------------	--------------------------------------

15. Regulatory information

• Product Name	Ultimate Algaecide Concentrate
• Symbol	Xi, N
• Indications of danger	Irritant; Dangerous for the Environment
• Risk phrases	R36/37/38 Irritating to eyes, respiratory system and skin. R51/53 Toxic to aquatic organisms may cause long-term adverse effects in the aquatic environment.
• Safety phrases	S1/2 Keep locked up and out of the reach of children. S24/25 Avoid contact with skin and eyes. S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S29/56 Do not empty into drains, dispose of this material and its container at hazardous waste collection point. S45 In case of accident or if you feel unwell, seek medical advice immediately (show label where possible) S36/37/39 Wear suitable protective clothing, gloves and eye/face protection

16. Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.