

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

- **Trade Name:** Algae Controller
- **Intended use of chemical** Algae Prevention in pool water
- **Manufacturer/Supplier** Complete Pool Controls Ltd
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Bishops Cleeve
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GL52 7RS

Tel: +44 (0) 8712 229081 Fax: +44 (0) 8712 229083
- **Contact E-mail for advice** E-mail: sales@cpc-chemicals.co.uk
- **Emergency Telephone** Tel: +44 (0) 8712 229081 (office hours)

2. Hazard Identification



Xn: Harmful
N: Dangerous for the environment

• Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the 'General Classification guideline for preparations of the EU' in the latest valid version.

R36/38 Irritating to eyes and skin
R50 Very toxic to aquatic organisms.

• GHS label elements



Danger

H314: Causes severe skin burns and eye damage



Warning

H400: Very toxic to aquatic life



Warning

H313: May be harmful in contact with skin

• Prevention

P260: Do not breathe dust/fume/gas/mist/vapours/spray
P264: Wash thoroughly after handling
P273: Avoid release to the environment
P280: Wear protective gloves/protective clothing/eye protection/face protection

• Response

P301+330+331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P301+310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P303+361+353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water
P363: Wash contaminated clothing before reuse
P305+351+338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy
P337 + P314: If eye irritation persists: Get medical advice/attention

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Trade Name: Algae Controller

2. Hazard Identification (continued)

- **Storage**

P405: Store locked up

- **Disposal**

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

3. Composition/information on ingredients

- **Chemical characterization:**

- **Description** Mixture of substances listed below with nonhazardous additions

Dangerous Components cationic surficants
% 2.5 - 10%

- **Additional Information** For the wording of listed risk phrases refer to section 16

4. First Aid measures

- **General Information:**

- ~ Immediately remove any clothing soiled by the product.
- ~ Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- **After inhalation:**

- ~ Supply fresh air; consult doctor in case of complaints.
- ~ In case of unconsciousness place patient stably in side position for transportation.

- **After skin contact:**

- ~ Immediately wash with water and soap and rinse thoroughly.
- ~ Immediate medical treatment necessary.
- ~ Failure to treat burns can prevent wounds from healing.

- **After eye contact:**

- ~ Rinse opened eyes for several minutes under running water.
- ~ Call a doctor immediately.

- **After Swallowing:**

- ~ Do not induce vomiting. Call for a doctor immediately.
- ~ Rinse out mouth and drink plenty of water.
- ~ If patient is vomiting lay on side not back.

5. Fire fighting measures

- **Suitable extinguishing media:**

- ~ Water Spray
- ~ Fire extinguishing powder
- ~ Foam
- ~ Carbon dioxide

- **For Safety Reasons unsuitable extinguishing media:**

N/A

- **Special hazards caused by the substance, its products:**

- **Special exposure hazards in fire:**

During heating or in case of fire poisonous gases are produced.

- ~ Nitrogen Oxides (Nox)
- ~ Carbon monoxide (CO)
- ~ Hydrogen chloride (HCl)

- **Special protective equipment:**

Fire-fighters should wear full protective clothing and self-contained breathing

6. Accidental release Measures

- **Personal Protection**
 - ~ Use appropriate personal protective equipment as detailed in section 8
 - ~ Particular danger of slipping on leaked/spilled product.
- **Environmental Protection**
 - ~ Prevent from spreading (e.g. by daming in)
 - ~ Inform authorities in case of seepage into ground, water course or sewer system.
 - ~ Do not allow to penetrate the ground/soil
 - ~ Do not allow to enter sewers/surface or ground water
- **Methods for cleaning:**
 - ~ Absorb with liquid binding material
 - ~ Dispose of contaminated material as waste according to item 13.
 - ~ Ensure adequate ventilation.

7. Handling and storage

• Information for safe handling and storage:

- **Handling:**
 - ~ Open and handle container with care.
 - ~ Ensure good ventilation/exhaustion in the workplace

Information about fire and explosion protection: ~ No special measures required

• Storage

Requirements to be met by storerooms: ~ Store only in original receptacles
~ Prevent any seepage into the ground

Information about storage in common facility: ~ Store away from foodstuffs.

Further information ~ Keep container tightly sealed

8. Exposure control/personal protection

- **Exposure control limits:** No value assigned for this product
- **Additional Information** The lists valid during the making were used as basis

• Personal Protective Equipment

General protective and hygienic measures

- ~ Use skin protection cream for skin protection
- ~ Keep away from all foodstuffs, beverages and feed.
- ~ Immediately remove all soiled and contaminated clothing.
- ~ Wash hands before break and at the end of work.
- ~ Avoid contact with eyes and skin

- **Respiratory Protection** Not required

- **Hand Protection**  Protective Gloves

- ~ The glove material has to be impermeable and resistant to the product.
- ~ Due to missing tests no recommendation to the glove material can be given for the product/ chemical mixture.
- ~ Selection of the glove material on consideration of the penetration times, rates of diffusion and degradation.


8. Exposure control/personal protection.....(cont)

Material of gloves

The selection of the suitable gloves does not only depend on the material but also on further marks and varies from manufacturer to manufacturer. As the product is a preparation of several substances, resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

- ~ The exact breakthrough time has to be found by the manufacturer of the protective gloves and has to be observed.
- ~ If in permanent contact gloves made of the following material are suitable: Nitril rubber, NBR
- ~ If in permanent contact gloves made of the following material are **not** suitable: Leather

- **Eye Protection**  Tightly sealed goggles
- **Body Protection** Protective clothing
Apron

9. Physical and chemical properties

• General Information

Form:	Fluid
Colour:	Blue
Odour:	Mild

• Change in condition

Melting Point:	Undetermined
Boiling Point:	100oC

• Flash Point

N/A

- **Self Igniting:** Product is not self igniting
- **Danger of explosion** Product does not present an explosion hazard
- **Vapour pressure** 23 hPa
- **Density at 20°C** 1.00 g/cm³
- **Solubility in water** Fully miscible

• Solvent content

Organic Solvents:	0.0%
VOC (EC):	0,00%

10. Stability and reactivity

- **Stability** Stable under normal temperature conditions and recommended use
- **Conditions to avoid**
- **Materials to avoid** None known
- **Dangerous reactions** No dangerous reactions known
- **Decomposition products** No dangerous decomposition products known

11. Toxicological Information

- **Acute Toxicity**

LD/LC50 values relevant for classification:

63449-41-12 quaternary ammonium compounds, benzyl-C8-18-alkyldemthyl, chlorides

Oral LD50 600 mg/kg (rat)

Dermal 1,560 mg/kg (rat)

- **Primary Irritant effect:**

- **On the skin:** Irritant to skin and mucous membranes

- **On the eyes:** Irritating effect

- **Sensitization:** Sensitizing effect by skin contact is possible bt prolonged exposure

- **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification guidelines for Preparations as listed in the latest version.

~ Irritant

12. Ecological Information

- **Information about elimination (persistence and degradability):**

The surficants contained in the product correspond to the direction on the environment combatability of detergents and are biodegradable:

Easily removable

Easily biodegradable

- **Behaviour in environment systems:**

- **Mobility and bioaccumulation potential**

Due to the distribution coefficient n-octanol/water an accumulation in organisms is not expected.

- **General Notes**

~ Water hazard Class 2 (German Regulation) (self assessment): hazardous for water

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

~ Must not reach sewage water or drainage ditch undiluted or unneutralized

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

13. Disposal Considerations

- **Product**

- **Recommendation**

~ Product to be disposed of as hazardous waste adhering to local and national regulations

- **Uncleaned packaging**

- **Recommendation**

~ Empty contaminated packaging thoroughly

~ Packaging may be recycled after thorough and proper cleansing

- **Recommended cleansing agents**

Water if necessary together with cleansing agents

14. Transport Information

• Land Transport ADR/RID (cross border)



- ADR/RID class 8 Corrosive Substances
- Danger code (Kemler) 80
- U N No 1760
- Packing group III
- Hazard label 8
- Special Marking Symbol (fish and tree)
- Proper shipping name 1760 CORROSIVE LIQUID,N.O.S. (benzododecinium chloride, miristalkonium chloride)

• Maritime Transport IMDG



- IMDG class 8 Corrosive Substances
- U N No 1760
- Packing group III
- EMS Number F - A, S - B
- Marine Pollutant No
- Proper shipping name 1760 CORROSIVE LIQUID,N.O.S. (benzododecinium chloride, miristalkonium chloride)

• Air Transport ICAO-TI and IATA-DGR



- ICAO/IATA class 8 Corrosive Substances
- U N No 1760
- Hazard label 8
- Packing group III
- Proper shipping name 1760 CORROSIVE LIQUID,N.O.S. (benzododecinium chloride, miristalkonium chloride)
- UN 'Model Regulation' 1760 CORROSIVE LIQUID,N.O.S. 8, III
- Environmental hazards: ENVIRONMENTALLY HAZARDOUS SUBSTANCE

15. Regulatory information

- Product Name Algae Controller
- Symbol Xi Irritant
N Dangerous for the Environment
- Risk phrases
R36/38 Irritating to eyes and skin
R50 Very toxic to aquatic organisms.
- Safety phrases
S2 Keep out of reach of children
S26 In case of contact with eyes, rinse immediately with water and seek medical attention.
S37/39 Wear suitable protective gloves and eye/face protection
S46 If swallowed, seek medical advice immediately (show the label where possible).
S56 Dispose of this material and its container at hazardous or special waste collection point

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.

R21/22 Harmful in contact with skin and if swallowed
R34 Causes burns
R50 Very toxic to aquatic organisms

• 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
ICAO-TI: Technical Instructions by the 'International Civil Aviation Organization' (ICAO)
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
3	August 09	Lorna Murray	Classification changed to include symbol N, inclusion of new Environmentally Hazardous Mark for transport for packagings larger than 5kg and other minor editorial amendments.
5	February 10	Linda Brueford	Classification changed to include N (Dangerous to the environment). GHS label elements added and other minor editorial amendments