

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

- **Product details**
- **Trade name:** LO-CHLOR BLACK SPOT ALGAE KILLER
- **Application of the substance / the preparation** Kills black spot algae in swimming pools
- **Manufacturer/Supplier:**  
Total Water Products  
Alrewas House  
Main Street  
Alrewas  
Burton On Trent  
Staffordshire  
DE13 7ED  
  
Telephone: +44 (0) 1283 792600  
Fax: +44 (0) 1283 792041  
E-mail: info@platerchemicals.co.uk
- **Further information obtainable from:** Product safety department.
- **Information in case of emergency:** Telephone: +44 (0) 1283 792600

## 2 Hazards identification

- **Hazard description:**







Xn Harmful

- **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.  
R 22 Harmful if swallowed.  
R 36/38 Irritating to eyes and skin.
- **Classification system:**  
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

## 3 Composition/information on ingredients

- **Chemical characterization**
- **Description:** Mixture of substances listed below with nonhazardous additions.

### · **Dangerous components:**

CAS: 31089-39-1	2,2',2''-nitrilotrisethanol, coppersalt	 Xn; R 22	25-50%
CAS: 8001-54-5 EINECS: 264-151-6	Benzalkonium chloride (+)	 C,  Xn,  N; R 21/22-34-50	2.5-10%

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

## 4 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.
- **After inhalation:** In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:**  
If skin irritation continues, consult a doctor.  
Immediately wash with water and soap and rinse thoroughly.

(Contd. on page 2)

# Safety Data Sheet

## according to 1907/2006/EC, Article 31

Printing date 15.12.2009

Revision: 02.06.2009

**Trade name: LO-CHLOR BLACK SPOT ALGAE KILLER**

(Contd. of page 1)

- **After eye contact:**  
Check for and remove any contact lenses.  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** Call for a doctor immediately.
- **Information for doctor:** Treat symptomatically and supportively.

### 5 Fire-fighting measures

- **Suitable extinguishing agents:**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Protective equipment:**  
Do not inhale explosion gases or combustion gases.  
Wear fully protective suit.  
Wear self-contained respiratory protective device.

### 6 Accidental release measures

- **Person-related safety precautions:** Not required.
- **Measures for environmental protection:** Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**  
Send for recovery or disposal in suitable receptacles.  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

### 7 Handling and storage

- **Handling:**
- **Information for safe handling:**  
Prevent formation of aerosols.  
Ensure good ventilation/exhaustion at the workplace.
- **Information about fire - and explosion protection:** No special measures required.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Prevent any seepage into the ground.
- **Information about storage in one common storage facility:**  
Store away from oxidizing agents.  
Store away from foodstuffs.
- **Further information about storage conditions:**  
Store in cool, dry conditions in well sealed receptacles.  
Protect from frost.

### 8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Ingredients with limit values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists valid during the making were used as basis.
- **Personal protective equipment:**  
Select PPE appropriate for the operations taking place taking into account the product properties.
- **General protective and hygienic measures:**  
Do not eat, drink, smoke or sniff while working.  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.

(Contd. on page 3)

# Safety Data Sheet

## according to 1907/2006/EC, Article 31

Printing date 15.12.2009

Revision: 02.06.2009

**Trade name: LO-CHLOR BLACK SPOT ALGAE KILLER**

(Contd. of page 2)

- Avoid contact with the eyes and skin.  
Do not inhale gases / fumes / aerosols.
- **Respiratory protection:** Not required.
  - **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

The selection of the 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 has therefore to be checked prior to the application.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Tightly sealed goggles

- **Body protection:** Impervious protective clothing

## 9 Physical and chemical properties

- **General Information**

<b>Form:</b>	Liquid
<b>Colour:</b>	Blue
<b>Odour:</b>	Characteristic

- **Change in condition**

<b>Melting point/Melting range:</b>	Undetermined.
<b>Boiling point/Boiling range:</b>	100°C

· <b>Flash point:</b>	Not applicable.
-----------------------	-----------------

· <b>Ignition temperature:</b>	>250°C
--------------------------------	--------

· <b>Self-igniting:</b>	Product is not selfigniting.
-------------------------	------------------------------

· <b>Danger of explosion:</b>	Product does not present an explosion hazard.
-------------------------------	---

· <b>Vapour pressure at 20°C:</b>	23 hPa
-----------------------------------	--------

· <b>Density at 20°C:</b>	1.07 g/cm <sup>3</sup>
---------------------------	------------------------

· <b>Solubility in / Miscibility with water:</b>	Not miscible or difficult to mix.
--	-----------------------------------

· <b>pH-value at 20°C:</b>	7
----------------------------	---

## 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**

No decomposition if used and stored according to specifications.

- **Materials to be avoided:** Strong acids and oxidising agents

- **Dangerous reactions** No dangerous reactions known.

(Contd. on page 4)

# Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 15.12.2009

Revision: 02.06.2009

**Trade name: LO-CHLOR BLACK SPOT ALGAE KILLER**

(Contd. of page 3)

- **Dangerous decomposition products:**  
Carbon monoxide and carbon dioxide  
Nitrogen oxides (NO<sub>x</sub>)

## 11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**  
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:  
Harmful

Chronic copper poisoning in man is recognised in the form of Wilson's disease. Individuals with Wilson's disease are unable to metabolise copper. Thus, copper accumulates in various tissues and may result in liver, kidney and brain damage.  
Lungs may be affected by repeated or prolonged exposure to the aerosol.

## 12 Ecological information

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

## 13 Disposal considerations

- **Product:**
- **Recommendation**  
Contact waste processors for recycling information.  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.  
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 legislation.
- **Uncleaned packaging:**
- **Recommendation:**  
Container remains hazardous when empty. Continue to observe all precautions.  
Do not mix with other waste streams.

## 14 Transport information

- **Maritime transport IMDG:**
- **Marine pollutant:** No

## 15 Regulatory information

- **Labelling according to EU guidelines:**  
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

(Contd. on page 5)

# Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 15.12.2009

Revision: 02.06.2009

**Trade name: LO-CHLOR BLACK SPOT ALGAE KILLER**

(Contd. of page 4)

**· Code letter and hazard designation of product:**

Xn Harmful

**· Hazard-determining components of labelling:**

2,2',2''-nitritotrisethanol, coppersalt

**· Risk phrases:**

22 Harmful if swallowed.

36/38 Irritating to eyes and skin.

**· Safety phrases:**

2 Keep out of the reach of children.

13 Keep away from food, drink and animal feedingstuffs.

24/25 Avoid contact with skin and eyes.

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

46 If swallowed, seek medical advice immediately and show this container or label.

**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.

**· Relevant R-phrases**

21/22 Harmful in contact with skin and if swallowed.

22 Harmful if swallowed.

34 Causes burns.

50 Very toxic to aquatic organisms.

**· Department issuing MSDS: Product safety department.**

GB

