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## SAFETY DATA SHEET

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

#### 1.1 Product identifier

Product Name: **Concentrated Blue Algicide**  
Datasheet Number: 035 1. 1. 0

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Pool / spa treatment

#### 1.3 Details of the supplier of the safety data sheet

Name of Supplier: Plastica Ltd  
Address of Supplier: Perimeter House  
Napier Road  
St Leonards-on-Sea  
East Sussex TN38 9NY  
United Kingdom  
Telephone: +44 (0) 1424 857857  
Fax:  
Responsible Person:  
Email: [info@plasticapools.com](mailto:info@plasticapools.com)

#### 1.4 Emergency telephone number

0800 043 0891 - Technical  
0800 043 0892 - Emergency

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## 2 Hazards identification

### 2.1 Classification of the substance or mixture

- Classification (REGULATION (EC) No 1272/2008) [CLP/GHS]
- Eye Dam. 1, H318
- Skin Irrit. 2, H315
- Aquatic Chronic 2, H411
- Classification (67/548/EEC, 1999/45/EC)
- R37/38
- Xi; R41
- R51/53
- Additional information: For full text of R-phrases and Hazard- and EU Hazard-statements: see section 16

### 2.2 Label elements



- Signal Word: Danger
- Symbols: GHS07, GHS09

## 2 Hazards identification (....)

### Hazard phrases

- Causes serious eye damage.
- Causes skin irritation.
- Toxic to aquatic life with long lasting effects.

### Precautionary Phrases

- Keep out of reach of children.
- Wash thoroughly after handling.
- Avoid release to the environment.
- Wear protective gloves/protective clothing/eye protection/face protection.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Immediately call a POISON CENTER or doctor/physician.

### 2.3 Other hazards

- None

## 3 Composition/information on ingredients

### 3.1 Mixtures

Chemical Name	Concentration	CAS Number	EC Number	R/H Phrases*	Symbols
Citric acid monohydrate	10-30%	5949-29-1		H315, H318, H335 R37/38, R41	GHS05, GHS07 Xi
Copper sulphate	1-10%	7758-98-7	231-847-6	H302, H319, H315, H400, H410 R22, R36/38, R50/53	GHS07, GHS09 Xn, N
Ammonia solution	1-10%	1336-21-6	215-647-6	H314, H400 R34, R50	GHS05, GHS09 C, N

\*See Section 16

## 4 First aid measures

### 4.1 Description of first aid measures

- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
- IF ON SKIN: Wash with plenty of soap and water.
- Get medical advice/attention.

### 4.2 Most important symptoms and effects, both acute and delayed

- May cause redness and irritation
- May cause coughing

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## 4 First aid measures (....)

- 4 .3 Indication of immediate medical attention and special treatment needed
- Treat symptomatically

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## 5 Fire-fighting measures

- 5 .1 Extinguishing media
- In case of fire: use water, foam or dry agent for extinction
- 5 .2 Special hazards arising from the substance or mixture
- Gives off irritating or toxic fumes (or gases) in a fire.
  - See Section 10.6
- 5 .3 Advice for firefighters
- Wear protective clothing as per section 8

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## 6 Accidental release measures

- 6 .1 Personal precautions, protective equipment and emergency procedures
- Evacuate the area and keep personnel upwind
  - Wear protective clothing as per section 8
- 6 .2 Environmental Precautions
- Do not allow to enter public sewers and watercourses
  - If contamination of drainage systems or water courses is unavoidable, immediately inform appropriate authorities
- 6 .3 Methods and material for containment and cleaning up
- Contain the spillage using bunding
  - Absorb spillage in earth or sand
  - Seal containers and label them
  - Remove contaminated material to safe location for subsequent disposal
  - Ventilate the area and wash spill site after material pick-up is complete
- 6 .4 Reference to other sections
- See Section 7 & 8

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## 7 Handling and storage

- 7 .1 Precautions for safe handling
- Ensure adequate ventilation
- 7 .2 Conditions for safe storage, including any incompatibilities
- Store in a well-ventilated place. Keep cool.
  - Keep container tightly closed.
  - Keep in an area equipped with impermeable flooring.
- 7 .3 Specific end use(s)
- No information available.

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## 8 Exposure controls/personal protection

### 8.1 Control parameters

- None assigned

### 8.2 Exposure controls

- Engineering controls should be provided to prevent the need for ventilation

#### Occupational exposure controls

- In case of inadequate ventilation wear respiratory protection.
- Wear rubber gloves
- When handling this substance, e.g. sampling, wear goggles giving complete eye protection
- Wear apron or other light protective clothing



Respirator



Goggles



Gloves



Suit

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## 9 Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- Odour: Odourless
- Appearance: blue, Liquid
- pH 8
- Boiling point >35 °C
- Vapour pressure - not known
- Vapour density - not known
- Melting point 200 °C
- Water solubility 266 g/l at 20 °C
- Specific gravity 1.145 - 1.175 g/cm<sup>3</sup>
- Flash point - not known
- Evaporation rate - not known
- Viscosity - Non viscous

### 9.2 Other information

- No information available

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## 10 Stability and reactivity

### 10.1 Reactivity

- No decomposition if stored normally.

### 10.2 Chemical stability

- Stable under normal conditions

### 10.3 Possibility of hazardous reactions

- Stable under normal conditions

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## 10 Stability and reactivity (....)

### 10 .4 Conditions to avoid

- Keep away from heat

### 10 .5 Incompatible materials

- Incompatible with oxidizing substances
- Incompatible with acid

### 10 .6 Hazardous Decomposition Products

- Decomposition products may include toxic fumes

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## 11 Toxicological information

### 11 .1 Information on toxicological effects

- LD50 (oral, rat) (copper sulphate) 520 mg/kg
- LD50 (oral, rat) (ammonia solution) 350 mg/kg

#### Inhalation

- May cause throat irritation
- May cause coughing
- May cause wheeziness

#### Contact with skin

- May cause redness and irritation

#### Contact with eyes

- May cause redness and irritation

#### Ingestion

- Can cause soreness and redness of the mouth and throat.

#### Carcinogenicity

- No information available

#### Teratogenicity

- No information available

#### Mutagenicity

- No information available

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## 12 Ecological information

### 12 .1 Toxicity

- Toxic to aquatic life with long lasting effects.

### 12 .2 Persistence and degradability

- Not readily biodegradable

### 12 .3 Bioaccumulation Potential

- Potential bioaccumulation

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## 12 Ecological information (....)

### 12 .4 Mobility in soil

- Absorbs on soil

### 12 .5 Results of PBT and vPvB assessment

- Not a PBT according to REACH Annex XIII

### 12 .6 Other Adverse Effects

- Hazardous to the environment
- See Section 12.1

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## 13 Disposal considerations

### 13 .1 Waste treatment methods

- Disposal should be in accordance with local, state or national legislation
- Avoid release to the environment.

#### Classification

- The waste must be identified according to the List of Wastes (2000/532/EC)

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## 14 Transport information



Dangerous Substance ENVIRONMENTALLY HAZARDOUS

### 14.1 UN Number

3082

### 14.2 UN Proper Shipping Name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Cupr-ammonium citrate complex)

### 14.3 Transport hazard class(es)

### 14.4 Packing group

III

### 14 .5 Environmental hazards

- See Section 12.1

### 14 .6 Special precautions for user

- See Section 7

### 14 .7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code

- Not applicable

Other information

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## 14 Transport information (....)

### Road/Rail (ADR/RID)

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Cupr-ammonium citrate complex)  
ADR UN No.: 3082  
ADR Hazard Class: 9 ADR Packing Group: III  
Tunnel Code: E

### Sea (IMDG)

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Cupr-ammonium citrate complex)  
IMDG UN No.: 3082  
IMDG Hazard Class.: 9 IMDG Pack Group.: III

### Air (ICAO/IATA)

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Cupr-ammonium citrate complex)  
ICAO Un No.: 3082  
ICAO Hazard Class.: 9 ICAO Packing Group.: III

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## 15 Regulatory information

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

- Refer to current CPL Regulations
- Refer to current EC Directive 82/501/EEC (the Seveso Directive)
- The List of Wastes (England) Regulations 2005 apply in the UK

15.2 Chemical Safety Assessment

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## 16 Other information

Text of R and S phrase codes used in this safety data sheet:- H302: Harmful if swallowed.; H314: Causes severe skin burns and eye damage.; H315: Causes skin irritation.; H318: Causes serious eye damage.; H319: Causes serious eye irritation.; H335: May cause respiratory irritation.; H400: Very toxic to aquatic life.; H410: Very toxic to aquatic life with long lasting effects.; R22: Harmful if swallowed; R34: Causes burns; R36/38: Irritating to eyes and skin; R37/38: Irritating to respiratory system and skin; R41: Risk of serious damage to eyes; R50: Very toxic to aquatic organisms; R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of PLASTICA'S limited knowledge and belief, accurate, and reliable as of the date of authorisation of this safety data sheet. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the user's responsibility to be satisfied as to the suitability and completeness of such information for the product as used.