

# SAFETY DATA SHEET



Product Name:

**ALGAE ELIMINATOR**

SDS Reference 031

Version No. 2

Revision date 8<sup>th</sup> February 2006

Authorisation date November 27<sup>th</sup> 2006

## 1. IDENTIFICATION OF SUBSTANCE / PREPARATION AND COMPANY

Product Name ALGAE ELIMINATOR

Use(s) Liquid used to prevent algae growth in swimming pools

Company Identification PLASTICA LTD

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## 2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Characterisation AQUEOUS ORGANO-COPPER COMPLEX

<u>Chemical name</u>	<u>CAS-No</u>	<u>EINECS/ELINCS</u>	<u>Classification</u>	<u>Concentration</u>
C <sub>12-14</sub> ALKYL DIMETHYL BENZYL AMMONIUM CHLORIDE	68391-01-5	269-919-4	C: R34/R22	1-15%
COPPER SULPHATE	7758-98-7	231-847-6	Xn: R22 Xi: 36/38 N: R50,53	2.5-10%

## 3. HAZARDS IDENTIFICATION

Physical & Chemical:



**CORROSIVE**

Health: CAUSES BURNS.



**DANGEROUS  
FOR THE  
ENVIRONMENT**

Environmental: TOXIC TO AQUATIC ORGANISMS  
MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.

## 4. FIRST AID MEASURES

General information Remove contaminated clothing immediately, to be disposed of or washed before reuse.

Inhalation Remove casualty from exposure ensuring one's own safety whilst doing so. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is okay, place in the recovery position. If conscious, ensure the casualty sits or lies down. If breathing becomes bubbly, have the casualty sit and provide oxygen if available. Transfer to hospital as soon as possible.

**4. FIRST AID MEASURES**

<b>Skin contact</b>	Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Transfer to hospital if there are burns or symptoms of poisoning.
<b>Eye contact</b>	Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.
<b>Ingestion</b>	Do NOT induce vomiting. Give 1 cup of water to drink every 10 minutes. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is okay, place in the recovery position. Transfer to hospital as soon as possible.
<b>Further information</b>	First aiders should avoid contact with the product. (Also see further information in section 16.)

**5. FIRE FIGHTING MEASURES**

<b>General hazard</b>	
<b>Extinguishing media</b>	To suit local surroundings (e.g. Carbon Dioxide, Alcohol or Polymer Foam, Dry Chemical Powder)
<b>Extinguishing media not to be used</b>	
<b>Special exposure hazards</b>	Corrosive. In combustion it emits toxic fumes.
<b>Protective equipment</b>	Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.
<b>Further information</b>	Avoid run-off water entering the drains (e.g. use bunding/barriers)

**6. ACCIDENTAL RELEASE MEASURES**

<b>Methods for cleaning up</b>	Adhere to personal protective measures. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Keep out of waterways, flush to a sewer serviced by a wastewater treatment facility.
<b>Environmental considerations</b>	Do not discharge into drains or rivers. Contain the spillage using bunding/barriers. Prevent any chemical entering surface water. If this occurs, inform the local water authority at once.
<b>Further information</b>	

**7. HANDLING & STORAGE**

<b>Advice on safe handling</b>	Handle in accordance with good hygiene and safety practice. Ensure there is sufficient ventilation of the area. Avoid direct contact with the substance.
<b>Storage conditions</b>	Store in a cool, well ventilated area. Keep container tightly closed.
<b>Further information</b>	

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

<b>Exposure controls</b>	There are no occupational exposure limit values available.
	LTTEL (8 hour TWA):            ppm            mg/m <sup>3</sup>
<b>Engineering controls</b>	Ensure adequate ventilation of working area (e.g. local exhaust ventilation).

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

<b>Personal protection</b>	Observe normal standards for handling chemicals. Avoid eye and skin contact. Wash thoroughly after handling (shower if necessary) Wear personal protective equipment appropriate to the task (see below)
<b>Eye protection</b>	Safety goggles or face-shield . (i.e. EN 166 approved). Ensure eye bath is to hand
<b>Skin protection</b>	Protective gloves (also consider your own risk assessment; e.g. breakthrough times, rates of diffusion and degradation, tasks undertaken)
<b>Respiratory protection</b>	Respirator (if ventilation is insufficient). Suitable respiratory protection must be available in case of emergency.
<b>Other protection</b>	Protective clothing with elasticated cuffs and closed neck. Boots made of PVC. PVC apron covering the tops of the boots. Ensure safety shower is to hand.

**9. PHYSICAL & CHEMICAL PROPERTIES**

<b>Physical form</b>	Liquid
<b>Colour</b>	Dark blue
<b>Odour</b>	Typical
<b>pH</b>	7.8-8.2
<b>Boiling pt / range</b>	From 100 °C
<b>Melting pt / range</b>	Not determined. °C
<b>Flash point</b>	Not applicable. °C
<b>Vapour pressure</b>	
<b>Density</b>	1.05 – 1.07 g/cm <sup>3</sup>
<b>Explosive limits</b>	Lower: % (v/v) Higher: % (v/v)
<b>Viscosity</b>	
<b>Water solubility</b>	Miscible in all proportions
<b>Additional information</b>	

**10. STABILITY & REACTIVITY**

<b>Stability</b>	Stable under normal conditions of handling.
<b>Thermal decomposition</b>	
<b>Conditions to avoid</b>	Excessive cold and heat
<b>Material to avoid</b>	The product is incompatible with chlorinated materials.
<b>Hazardous reactions</b>	Contact of solutions with chlorinated materials will release Chlorine gas
<b>Hazardous decomposition products</b>	In combustion emits toxic fumes of nitrogen oxides. In combustion it may emit amines and Chlorine.
<b>Further information</b>	

**11. TOXICOLOGICAL INFORMATION**

<b>Acute toxicity</b>	LD <sub>50</sub> rat (oral)	mg/kg	No data are available
<b>Dermal compatibility</b>	No data available		
<b>Mucous membrane compatibility</b>	No data are available		
<b>Further information</b>	The copper content of this product is below the level requiring classification as Harmful (<25% as CuSO <sub>4</sub> )		

**12. ECOLOGICAL INFORMATION**

<b>Acute toxicity</b>	LC <sub>50</sub>	Fish	mg/l	No data are available
<b>Degradability</b>	Not available.			
<b>Further information</b>	Copper sulphate is classified as very toxic to aquatic organisms. Therefore, do not allow to get into waste water or waterways; if this occurs, inform the relevant water authority at once.			

**13. DISPOSAL CONSIDERATIONS**

<b>Advice on disposal</b>	In accordance with national and local authority regulations, e.g. special waste. Dilutions >5% are classed as special waste by the Hazardous Waste Regulations 2005, have a Hazardous Waste List Code of 061301 and must be disposed of by a licensed waste disposal contractor. Do not discharge concentrated material into sewer. Subject to Hazardous Waste Regulations 2005. Consult a suitably licensed waste disposal company to agree the classification and consent limit before disposal or discharge.
<b>Contaminated packaging</b>	All residues must be removed from packaging prior to disposal as controlled waste.

**14. TRANSPORT INFORMATION**

<b>United Nations number</b>	3267
<b>Packaging group</b>	III
<b>IMDG code</b>	8/3267/III
<b>RID / ADR</b>	8, III
<b>ICAO / IATA</b>	8/3267/III
<b>Marine pollutant</b>	The product should not be marked as a marine pollutant.
<b>Proper shipping name</b>	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (Dioctyldimethylammonium chloride)
<b>Emergency action code</b>	2X
<b>Further information</b>	

**15. REGULATORY INFORMATION****Classification & labelling**

The product is classified in accordance with the Chemicals (Hazard Information and Packaging for Supply) Regulations [CHIP 3.1] Contains dimethyl benzyl ammonium chloride

**CORROSIVE****DANGEROUS  
FOR THE  
ENVIRONMENT****Risk phrases**

R34 CAUSES BURNS.  
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.  
S28 AFTER CONTACT WITH SKIN, WASH IMMEDIATELY WITH PLENTY OF WATER  
S36/37/39 WEAR SUITABLE PROTECTIVE CLOTHING, GLOVES AND EYE / FACE PROTECTION  
S45 IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL, SEEK MEDICAL ADVICE IMMEDIATELY (SHOW LABEL WHERE POSSIBLE).  
S61 AVOID RELEASE TO THE ENVIRONMENT. REFER TO SPECIAL INSTRUCTIONS / SAFETY DATA SHEETS.

**16. OTHER INFORMATION****Further information**

Refer to the Manual Handling Operations Regulations 1992.  
Store in accordance with HSE Guidance Note CS17.  
Read in conjunction with the Technical Data sheet concerning use of the product.

**Sources of data**

The Approved Supply List, Approved Carriage List and other suppliers' safety data sheets

**Date of issue**

04-05-2006

**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.**

**Risk phrases in section 2**

R22: Harmful if swallowed  
R34: Causes burns  
R36/38: Irritating to eyes and skin  
R50: Very toxic to aquatic organisms  
R53: May cause long-term adverse effects in the aquatic environment

Data sheet prepared by Rising HS&E Services.