


## SAFETY DATA SHEET – COPPER-FREE WEEKLY DOSE ALGAECIDE

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING	
1.1 Product identifier	COPPER-FREE WEEKLY DOSE ALGAECIDE
1.2 Relevant identified uses of the substance or mixture and uses advised against	Intended use: Treatment of swimming pools
1.3 Details of the supplier of the SDS	A & R Products (South East) Ltd Europa House Pivington Mill Pluckley Kent TN27 0PG  SDS compiler: mail@arproducts.co.uk
1.4 Emergency telephone number:	01233 841855 (Monday – Friday 9.00 – 17.00 hrs GMT)
SDS Issue 1:	06/03/2013

SECTION 2 HAZARDS IDENTIFICATION	
2.1 Classification of the substance or mixture	Classification to CLP ((EC) No 1272/2008): Skin Corr. 1B; H314 Aquatic Chronic 2; H411
see section 16 for full text of H-and R- phrases	Classification to DSD (67/548/EEC) and CHIP: Corrosive C;R34 Dangerous for the environment N;R51/53
2.2 Label elements	Labelling in accordance with CLP ((EC) No 1272/2008)   DANGER
Note: <i>italicized items</i> (H and P Statements codes) are not included on label	<i>H314</i> Causes severe skin burns and eye damage. <i>H411</i> Toxic to aquatic life with long lasting effects.  <i>P102</i> Keep out of reach of children. <i>P262</i> Do not get in eyes, on skin, or on clothing <i>P280</i> Wear protective gloves/ protective clothing/eye protection/ face protection. <i>P264</i> Wash with soap and water thoroughly after handling <i>P305 + P351 + P338</i> IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. <i>P273</i> Avoid release to the environment
2.3 Other hazards	Not identified as a PBT substance

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS						
3.2 Mixtures						
Hazardous Ingredients:	Name	EC No.	CAS No.	DSD classn.	CLP Classification	%
see section 16 for full text of classification phrases	Quaternary Ammonium Chloride	270-325-2	68424-85-1	Xn; R22 C; R34 N; R50	-	10-30

<b>SECTION 4 FIRST AID MEASURES</b>	
4.1 Description of first aid measures	<p><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.</p> <p><b>Eye contact:</b> Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.</p> <p><b>Ingestion:</b> Wash out mouth with water. 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 OK, place in the recovery position. Transfer to hospital as soon as possible.</p> <p><b>Inhalation:</b> Remove casualty from exposure ensuring one's own safety whilst doing so. If unconscious and breathing is OK, 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.</p>
4.2 Most important symptoms and effects, both acute and delayed	<p><b>Skin contact:</b> Blistering may occur. Progressive ulceration will occur if treatment is not immediate.</p> <p><b>Eye contact:</b> Corneal burns may occur. May cause permanent damage.</p> <p><b>Ingestion:</b> Corrosive burns may appear around the lips. Blood may be vomited. There may be bleeding from the mouth or nose.</p> <p><b>Inhalation:</b> There may be shortness of breath with a burning sensation in the throat. Exposure may cause coughing or wheezing.</p> <p><b>Delayed / immediate effects:</b> Immediate effects can be expected after short-term exposure.</p>
4.3 Indication of immediate medical attention and special treatment needed, if necessary	Eye bathing equipment should be available on the premises

<b>SECTION 5 FIREFIGHTING MEASURES</b>	
5.1 Extinguishing media	Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.
5.2 Specific hazards arising from the substance or mixture	Corrosive. In combustion emits toxic fumes
5.3 Advice for fire-fighters	Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

<b>SECTION 6 ACCIDENTAL RELEASE MEASURES</b>	
6.1 Personal precautions, protective equipment and emergency procedures	Avoid contact with skin and eyes Do not breathe spray Restrict access to area as appropriate until clean-up operations are complete. Use personal protective equipment recommended in Section 8 (Exposure controls/Personal Protection). Stop or reduce any leaks if it is safe to do so.
6.2 Environmental precautions	Do not discharge into drains or rivers. Contain the spillage using bunding.
6.3 Methods and material for containment and cleaning up	Clean-up should be dealt with only by qualified personnel familiar with the specific substance. Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.
6.4 Reference to other sections	Personal protective equipment: See section 8

<b>SECTION 7 HANDLING AND STORAGE</b>	
7.1 Precautions for safe handling	Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air.
7.2 Conditions for safe storage, including any incompatibilities	Store in cool, well ventilated area. Keep container tightly closed.
7.3 Specific end use(s)	For treatment of swimming pools

<b>SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION</b>	
8.1 Control parameters	No data available

8.2 Exposure controls	<p><b>Engineering measures:</b> Ensure there is sufficient ventilation of the area.</p> <p><b>Respiratory protection:</b> Self-contained breathing apparatus must be available in case of emergency.</p> <p><b>Hand protection:</b> Impermeable gloves.</p> <p><b>Eye protection:</b> Tightly fitting safety goggles. Ensure eye bath is to hand.</p> <p><b>Skin protection:</b> Impermeable protective clothing..</p>
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<b>SECTION 9</b>	<b>PHYSICAL AND CHEMICAL PROPERTIES</b>
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9.1 Information on basic physical and chemical properties – does not constitute a specification	
Appearance	Colourless to pale yellow liquid
Odour	Perceptible odour
Odour threshold	no data available
pH	6 – 7
Melting Point/Freezing point (°C)	No data available
Initial boiling point/boiling range (°C)	No data available
Flash Point (°C)(closed cup)	not applicable (non-flammable)
Evaporation rate	no data available
Flammability	not applicable (non-flammable)
Upper/lower flammability limits	not applicable (non-flammable)
Vapour pressure (mbar @ 20°C)	no data available
Vapour density	No data available
Relative Density (@15.5°C)	1.008
Solubility in water	soluble
Solubility in fat / solvent	not miscible
Partition coefficient (log Pow)	no data available
Autoignition temperature (°C)	not applicable (non-flammable)
Decomposition temperature	no data available
Viscosity (mPa.s @ 20°C)	No data available
Explosive properties	not explosive
Oxidising properties	None
9.2 Other information	None

<b>SECTION 10</b>	<b>STABILITY AND REACTIVITY</b>
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10.1 Reactivity	Stable under recommended transport or storage conditions.
10.2 Chemical stability	Stable under normal conditions
10.3 Possibility of hazardous reactions	Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.
10.4 Conditions to avoid	Avoid high temperatures
10.5 Incompatible materials	Strong oxidising agents. Strong acids.
10.6 Hazardous decomposition products	In combustion emits toxic fumes.

## SECTION 11 TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Acute Toxicity

-oral	LD50: 344 mg/kg (species : rat)
-inhalation	No data available
-dermal	LD50: 3340 mg/kg (species : rabbit)

#### Corrosivity/Irritation

-eye	Hazardous (calculated)
-skin	Hazardous (calculated)

#### Sensitisation -skin

Not sensitizing components present

#### Other relevant toxicity information

**Skin contact:** Blistering may occur. Progressive ulceration will occur if treatment is not immediate.  
**Eye contact:** Corneal burns may occur. May cause permanent damage.  
**Ingestion:** Corrosive burns may appear around the lips. Blood may be vomited. There may be bleeding from the mouth or nose.  
**Inhalation:** There may be shortness of breath with a burning sensation in the throat. Exposure may cause coughing or wheezing.  
**Delayed / immediate effects:** Immediate effects can be expected after short-term exposure.

## SECTION 12 ECOLOGICAL INFORMATION

12.1 Toxicity	Fish: LC50 (96 hr.): 0.93 mg/l (species: Rainbow trout) Daphnia magna: EC50 (48 hr.): 0.16 mg/l
12.2 Persistence and degradability	Biodegradable
12.3 Bioaccumulative potential	No bioaccumulation potential
12.4 Mobility in soil	Readily absorbed onto soil
12.5 Results of PBT and vPvB assessment	No known PBT or vPvB chemicals present
12.6 Other adverse effects	No further data available

## SECTION 13 DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

Waste Residue:	Transfer to a suitable container and arrange for collection by specialised disposal company. Do not allow entry to drains or waterways. Disposal to a special waste disposal plant, in accordance with local council regulations. The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.
Packaging:	Contaminated packaging: Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning. Packagings that cannot be cleaned are to be disposed of in the same manner as the product

## SECTION 14 TRANSPORT INFORMATION

Classified as dangerous goods for carriage under ADR/RID/ADN/IMDG/ICAO/IATA regulations

14.1 UN Number	UN 1760
14.2 UN Proper shipping name	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Quaternary ammonium chloride)
14.3 Transport hazard class(es)	8
14.4 Packing group	III
14.5 Environmental hazards	Classified as Environmentally Hazardous Substance / Marine Pollutant
14.6 Special precautions for user	ADR Transport Category 3; Tunnel Code E. See section 8 for safe handling
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable to packaged goods

## SECTION 15 REGULATORY INFORMATION

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

Supply regulations: Classified as hazardous under DPD/GHS/CLP criteria (DSD: Dangerous Preparations Directive; GHS: Globally Harmonised system of classification and labelling of chemicals; CLP: Classification, Labelling and Packaging regulations)  
Transport regulations: Classified as Dangerous Goods for Carriage under ADR/RID/IMDG/ICAO/IATA regulations

15.2 Chemical Safety Assessment

No formal chemical safety assessment has been carried out

## SECTION 16 OTHER INFORMATION

Full text of classification data in sections 2 and 3

Skin Corr. 1B; H314

Skin corrosion category 1B; Causes severe skin burns and eye damage

Aquatic Chronic 2; H411

Chronic aquatic toxicity category 2; Toxic to aquatic life with long lasting effects.

**Xn**; R22

Harmful; Harmful if swallowed.

**C**; R34

Corrosive; Causes burns.

**N**; R51/53

Dangerous for the Environment; Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**N**; R50

Dangerous for the Environment; Very toxic to aquatic organisms.

The information provided in this Safety Data Sheet is correct to our knowledge at the date of its revision. The information given only describes the products with regard to safety arrangements and is not to be considered as a warranty or quality specification and does not constitute a legal relationship. The information contained in this Safety Data Sheet relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text