

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

1.1 Product Identifier

Product Name : Algae Eliminator

Datasheet Number: SDS031

Unique Formula Identifier: HN20-K01U-G00R-WWST

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

Application of the substance / the mixture For the prevention and control of severe algae in

pool water.

Identified Use(s) Uses advised against Processes involving extreme heat use advised

against.

Any use carrying a risk of direct contact with eyes/skin where workers are exposed without adequate personal protective equipment (PPE)

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 E-mail (competent person) info@plasticapools.net

1.4 Emergency Telephone Number

Emergency Phone No 0800 043 0891 (Technical) 24 Hours a day

0800 043 0892 (Emergency)

Languages Spoken English

Members of the public seeking specific information on poisons should contact: I

n England and Wales: NHS 111 - dial 111

In Scotland: NHS 24 - dial 111

### **SECTION 2**: Hazards Identification

# 2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008



Corrosion

Skin Corr. 1B H314 - Causes severe skin burns and eye damage

Eye Dam. 1 H318 - Causes eye damage



Aquatic Acute 1 H400 - Very toxic to aquatic life

Aquatic Chronic. 2 H411 - Toxic to aquatic life with long lasting effects





2.2 **Label elements** According to Regulation (EC) No. 1272/2008 (CLP)

Hazard Pictograms
Signal Word(s)

Danger

**GHS05, GHS09** 

Hazard-determining components of

labelling:

Copper sulphate pentahydrate

Alkyl(C12-16)dimethylbenzylammonium chloride

**Hazard Statement(s)** H314 Causes severe skin burns and eye damage.

H410 Very toxic to aquatic life with long lasting effects.

**Precautionary statements** P260 Do not breathe dusts or mists.

P303+P361+P353 IF ON SKIN (or hair): Take off

immediately all contaminated clothing. Rinse skin with water

[or shower].

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P405 Store locked up.

P501 Dispose of contents/container in accordance with

local/regional/national/international regulations.

Additional Information Contains biocidal products: copper sulphate pentahydrate,

Alkyl(C12-16)dimethylbenzylammonium chloride

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable. vPvB: Not applicable.

### **SECTION 3**: Composition/Information on Ingredients

3.2 Chemical characterisation: Mixtures

**Description:** Mixture of substances listed below with nonhazardous

additions.

Substance	CAS No	EC No	EINECS No	%W/W
copper sulphate pentahydrate	7758-99-8	616-477-9		10-25%
Alkyl(C12-16)dimethylbenzylam- monium chloride	68424-85-1	939-253-5		2.5-10%

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

# SAFETY DATA SHEET: SDS031 Version 7.0 Date: 09/05/2024

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830



### **SECTION 4**: First Aid Measures

4.1 Description of first aid measures

General information: Immediately remove any clothing soiled by the product. After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact: Immediately rinse with water.

After eye contact: Check for and remove any contact lenses.

Rinse opened eye for several minutes under running water.

Then consult a doctor...

After swallowing: Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately. If vomiting occurs spontaneously, keep head below hips to

prevent aspiration.

Information for doctor: Antidote: the use of d-penicillamine as a chelating agent

should be determined by a qualified practioner. Individuals with Wilson's disease are more susceptible to chronic

copper poisoning.

Inhalation of an aerosol of this substance may cause lung

oedema.

4.2 Most important symptoms and

effects, both acute and delayed

Corrosive damage to gastro-intestinal tract.. **Hazards Danger of gastric perforation** 

4.3 Indication of any immediate medical attention and special

treatment needed

No further relevant information available.

# **SECTION 5**: Firefighting Measures

5.1 Extinguishing Media

Suitable Extinguishing Agents: CO2, powder or water spray. Fight larger fires with water

spray. Use fire extinguishing methods suitable to

surrounding conditions.

Unsuitable Extinguishing Media: Water with full jet

5.2 Special hazards arising from the

**substance or mixture :** In case of fire the following can be released:

Nitrogen oxides (NOx)
Chlorine compounds
Carbon monoxide (CO)
Sulphur Oxides (SOx)
Toxic metal oxide smoke

5.3 Advice for Firefighters: Wear fully protective suit.

Wear self-contained respiratory protective device. Do not inhale explosion gases or combustion gases.

Additional Information: Collect contaminated fire fighting water seperately.

It must not enter the sewage system.



### **SECTION 6**: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency

procedures:

Ensure adequate ventilation. Wear protective clothing.

6.2 **Environmental Precautions:** Do not allow to penetrate the ground/soil.

Do not allow product to reach sewage system or any

water course.

Inform respective authorities in case of seepage into water

course or sewage system.

6.3 **Methods and material for** 

containment and cleaning up:

Contain and collect spillage with non-combustible, absorbent material eg sand, earth, vermiculite or diatomaceous earth and place in container for disposal

according to local regulations.

Contaminated absorbent material may pose the same

hazard as the spilt product.

6.4 **Reference to other sections** See Section 7 for information on safe handling.

See Section 8 for information on personal protection

equipment.

See Section 13 for disposal information.

# **SECTION 7**: Handling and Storage

7.1 **Precautions for Safe Handling** Avoid direct contact (skin/eye contact, ingestion and/or

inhalation of fume/mist/dust) with the product in the

undiluted form.

Ensure good ventilatio/exhaustion at the workplace.

Prevent formation of aerosols.

Safety showers and eye wash facilities should be avalable

at the work area.

Information about fire - and explosion protection: No special measures required.

7.2 Conditions for safe storage, including any incompatibilities

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 foodstuffs.

Store away from oxidising agents.

Further information about storage

conditions:

Protect from frost.

Store in a bunded area.

Store in cool, dry conditions in well sealed receptacles.

Storage class: 8B

7.3 **Specific end use(s)** No further relevant information available.



### **SECTION 8**: Exposure Controls/Personal Protection

### 8.1 Control Parameters

Ingredients with limit values that require monitoring at the workplace			
7758-99-8 copper sulphate pentahydrate			
WEL	Short-term value: 2 mg/m³ Lone-term value: 1 mg/m³		
	Copper and compound: dust and mist (as CU)		

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

**Appropriate engineering controls** No further data; see section 7

Personal protective equipment: General protective and hygienic measures:

The usual precaultionary measures are to be adhered to

when handling chemicals.

Avoid close or long term contact with the skin.

Do not eat, drink, smoke or sniff while working.

Take note of assigned Workplace Exposure Limits.

Keep away from foodstuffs, beverage and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Ensure that eyewash stations and safety showers are close

to the workstation location.

**Respiratory protection:** Use suitable respiratory protective device in case of

insufficient ventilation...

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 conforming to EN166.

#### **Body protection:**

Protective work clothing.

Body protection must be chosen depending on product properties, activity and possible exposure.

**Environmental exposure controls Risk management measures** 

Do not allow to enter drains, sewers or watercourses. The operators shall be instructed adequately.

Page 5 of 10



# **SECTION 9**: Physical and Chemical Properties

# 9.1 Information on basic physical and chemical properties

**General Information** 

Appearance:

Form:
Colour:
Dark Blue
Odour:
Characteristic
Odour threshold:
Not determined.
Melting point/freezing point:
Undetermined.
Initial boiling point and boiling range:
Flammability:

Not applicable.

**Explosion limits** 

Lower: Not determined.
Upper: Not determined.
Flash point: Not applicable.
Decomposition temperature: Not determined.

pH at 20°C 8 - 8.5

Viscosity:

Kinematic viscosity: Not determined. Dynamic: Not determined.

Solubility

Water: Fully miscible.
Partition coefficient n-octanol/water Not determined.

Vapour pressure at 20°C: 23 hPA

Density and/or relative density

Density at 20°C: 1,110 g/cm³
Relative density: Not determined.
Vapour density: Not determined.

9.2 **Other Information:** NOTE: The physical data presented above are typical

values and should not be construed as a specification.

Appearance: Liquid

Ignition temperature: Product is not self-igniting.

Explosive properties: Product does not present an explosion hazard.

Change in condition

Evaporation rate: Not determined.

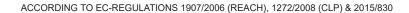
Information with regard to physical hazard classes
Explosives Void
Flammable gases Void
Aerosols Void

Oxidising gases
Void
Gases under pressure
Void
Flammable liquids
Void
Flammable solids
Void
Self-reactive substances and mixtures
Pyrophoric liquids
Void
Pyrophoric solids
Void

Self-heating substances and mixtures

Substances and mixtures, which emit flammable gases in contact with water Void Oxidising liquids Void Oxidising solids Void Organic peroxides Void Corrosive to metals Void Desensitized explosives Void

Void





**SECTION 10**: Stability and Reactivity

10.1 **Reactivity** No further relevant information available.

10.2 Chemical stability Thermal

decomposition / conditions to be

avoided:

No decomposition if used and stored according to

specifications.

10.3 **Possibility of hazardous reactions:** No dangerous reactions known.

10.4 **Conditions to avoid:** No further relevant information available.

10.5 **Incompatible materials:** Strong oxidising agents.

10.6 Hazardous decomposition products: Carbon monoxide and carbon dioxide

Chlorine compounds Nitrogen oxides (NOx) Sulphur oxides (SOx)

Metal oxide

# **SECTION 11**: Toxicological Information

### 11.1 Information on toxicological effects

Acute toxicity Based on available data, the classification criteria are not met

LD/LC50 values relevant for classification					
ATE (Acute Toxicity Estimates)					
Oral	LD50	2,598 mg/kg			

Skin corrosion/irritation: Causes severe skin burns and eye damage.

Serious eye damage/irritation: Causes serious eye damage.

Respiratory or skin sensitisation: Based on available data, the classification criteria are not met.

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity Based on available data, the classification criteria are not met.

Reproductive toxicity Based on available data, the classification criteria are not met.

STOT-single exposure Based on available data, the classification criteria are not met.

STOT-repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met.

# Additional toxicological information:

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of oesophagus and stomach.

Inhalation may cause lung oedema, but only after initial corrosive effects on eyes and/or airways have become manifest. The symptoms of lung oedema often do not become manifest until a few hours have passed and they are aggravated by physical effort. Rest and medical observation are therefore essential. Immediate administration of an appropriate inhalation therapy by a doctor or a person authorized by him/her, should be considered.

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.

### 11.2 Information on other hazards

Endocrime disrupting properties	
None of the ingredients is listed	



# **SECTION 12**: Ecological Information

12.1 Toxicity

Aquatic Toxicity: No further relevant information available.

12.2 **Persistence and degradability** The organic portion of the product is biodegradable.

12.3 **Bioaccumulative potential** Product is not expected to bioaccumulate.

12.4 **Mobility in soil** No further relevant information available.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable. vPvB: Not applicable.

12.6 **Endocrime disrupting properties** The product does not contain substances with endocrine

disrupting properties.

12.7 Other adverse effects Remark - Very toxic to fish.

General notes The surfactants contained in this mixture comply with

Regulations (EC) 648/2004. 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

unneutralised. Danger to drinking water if even small

quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Very toxic for aquatic organisms

### **SECTION 13**: Disposal Considerations

#### 13.1 Waste treatment methods

#### Recommendation

Recommended Hierarchy of Controls:

Minimize waste;

Reuse if not contaminated;

Recycle, if possible; or

Safe disposal (if all else fails).

Must not be disposed together with household garbage.

Do not allow product to reach sewage system.

Contact waste processors for recycling information.

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:**

Empty contaminated packagings thoroughly.

They may be recycled after thorough and proper cleaning.

Disposal must be made according to official regulations.

Container remains hazardous when empty. Continue to observe all precautions.

Containers, even those that are "empty," may contain residues that can develop flammable and/or hazardous vapours upon heating. Do not cut, drill, grind, weld, or perform similar operations on or near empty containers.

Recommended cleansing agents: Water, if necessary together with cleansing agents



**SECTION 14**: Transport Information

14.1 UN-Number

ADR, RID, ADN, IMDG, IATA UN1760

14.2 UN proper shipping name

ADR, RID, ADN UN1760 Corrosive Liquid N.O.S (Alkyl(C1216)

dimethlybenzylammonium chloride), Environmentally

Hazardous

IMDG Corrosive Liquid, N.O.S (Alkyl(C12-16)

dimethylbenzylammonium chloride, copper sulphate

pentahydrate), Marine Pollutant

IATA Corrosive Liquid, N.O.S (Alkyl(C12-16)

dimethylbenzylammonium chloride)

14.3 Transport hazard class(es)

ADR, RID, ADN, IMDG, IATA

Class 8 Corrosive substances

Label 8

14.4 Packing group

ADR, RID, ADN, IMDG, IATA II

14.5 **Environmental hazards:** Product contains environmentally hazardous substances:

copper sulphate pentahydrate

Marine Pollutant Symbol (fish and tree)

14.6 **Special precautions for user** Warning: Corrosive substances.

Hazard id number (Kemler code)80Hazchem Code:2XEMS Number:F-A,S-B

Stowage Category: B

**Stowage Code:** SW2 Clear of living quarters.

14.7 Transport in bulk according to Annex

II of Marpol and the IBC Code Not applicable

**Transport/Additional information:** 

ADR/RID/ADN

Limited quantities (LQ) 1L
Excepted quantities (EQ) Code:E2

Maximum net quantity per inner packaging: 30ml Maximum net quantity per outer packaging: 500ml

Transport category: 2
Tunnel restriction code: E

**IMDG** 

Limited quantities (LQ) 1L Excepted quantities (EQ) Code: E2

Maximum net quantity per inner packaging: 30ml

Maximum net quantity per outer packaging: 500ml

UN "Model Regulation": UN1760 Corrosive Liquid N.O.S (Alkyl (C12 - 16)

Dimethylbenzylammonium Chloride), 8, II, Environmentally

Hazardous



# **SECTION 15**: Regulatory Information

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

Regulated explosives precursorsNone of the ingredients is listed.Regulated poisonsNone of the ingredients is listed.Reportable explosives precursorsNone of the ingredients is listed.

Reportable poisons None of the ingredients is listed.

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

Sevesco category: E1

Qualifying quantity (tonnes) for the application of lower-tier requirements 100t Qualifying quantity (tonnes) for the application of upper-tier requirements 200t

15.2 **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

**SECTION 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 phrases

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

#### **Training hints**

This product should only be handled by workers who have received sufficient training in the safe handling and use of chemical products.

### Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

ATE: Acute toxicity estimate values

Acute Tox. 4: Acute toxicity - Category 4

Skin Corr. 1B: Skin corrosion/irritation - Category 1B

Eye Dam. 1: Serious eye damage/eye irritation - Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1 A quatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2