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**SAFETY DATA SHEET**

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

## 1.1 Product identifier

- Product Name: Microcide and Algaecide
- Product Part Number: 028

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

- Use of the substance/mixture: Pool / spa treatment; Biocide
- Use advised against: No information available

## 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  
United Kingdom  
TN38 9NY
- Telephone: +44 (0) 1424 857857
- Email: info@plasticapools.net

## 1.4 Emergency telephone number

- Emergency Telephone: 0800 043 0891 (technical)  
0800 043 0892 (emergency)

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**SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

- Classification (REGULATION (EC) No 1272/2008) [CLP/GHS]: Aquatic Acute 1, H400; Aquatic Chronic 1, H410
- Additional information: For full text of Hazard and EU Hazard statements: see section 16

## 2.2 Label elements



GHS09

- Signal Word: Warning
- Symbols: GHS09
- Hazard statements  
H410 - Very toxic to aquatic life with long lasting effects.
- Precautionary statements  
P273 - Avoid release to the environment.  
P391 - Collect spillage.  
P501 - Dispose of contents/container to an authorised waste collection point
- Supplemental Hazard Information (EU)

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**SECTION 2: Hazards identification (....)**

Use biocides safely. Always read the label and product information before use.

**2.3 Other hazards**

- Marine pollutant
  - Not a PBT according to REACH Annex XIII
  - Not a vPvB according to REACH Annex XIII
- 

**SECTION 3: Composition/information on ingredients****3.1 Substances****3.2 Mixtures**

- Methanamine, N-methyl-, polymer with 2-(chloromethyl) oxirane;  
Epichlorohydrin-dimethylamine-copolymer  
Concentration: 10-30%  
CAS Number: 25988-97-0  
EC Number: 607-843-9  
Classification (REGULATION (EC) No 1272/2008) [CLP/GHS]: Acute Tox. 4, H302;  
Aquatic Acute 1, H400; Aquatic Chronic 1, H410
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**SECTION 4: First aid measures****4.1 Description of first aid measures**

- Contact with skin  
After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water  
Contaminated clothing should be laundered before reuse  
If skin irritation or rash occurs: Get medical advice/attention.
- Contact with eyes  
If substance has got into eyes, immediately wash out with plenty of water for at least 15 minutes  
Irrigate eyes thoroughly whilst lifting eyelids  
Remove contact lenses, if present and easy to do. Continue rinsing.  
If eye irritation persists: Get medical advice/attention.
- Ingestion  
Rinse mouth with water (do not swallow)  
Never give anything by mouth to an unconscious person  
Do not induce vomiting unless directed by medical personnel.  
Get medical advice/attention.
- Inhalation  
Remove person to fresh air and keep comfortable for breathing.  
If breathing is difficult, oxygen should be given by a trained person  
Get medical advice/attention.

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

- Contact with eyes  
May cause redness and irritation
  - Contact with skin  
May cause redness and irritation
-

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**SECTION 4: First aid measures (....)**

- Ingestion  
May cause nausea/vomiting
- Inhalation  
May cause respiratory tract irritation.

## 4.3 Indication of any immediate medical attention and special treatment needed

- Treat symptomatically
- 

**SECTION 5: Firefighting measures**

## 5.1 Extinguishing media

- In case of fire use extinguishing media appropriate to surrounding conditions.
- Use water to cool containers exposed to fire.

## 5.2 Special hazards arising from the substance or mixture

- Gives off irritating or toxic fumes (or gases) in a fire.

## 5.3 Advice for firefighters

- Special protective equipment: Wear self-contained breathing apparatus (SCBA). Wear full protective clothing including chemical protection suit.
  - Collect contaminated fire extinguishing water separately. This **MUST** not be discharged into drains. Prevent fire extinguishing water from contaminating surface or ground water.
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**SECTION 6: Accidental release measures**

## 6.1 Personal precautions, protective equipment and emergency procedures

- Personal precautions for non-emergency personnel: Wear protective clothing as per section 8; Avoid contact with skin and eyes; Do not breathe dust/fume/gas/mist/vapours/spray; Eyewash bottles should be available; Wash thoroughly after handling.
- Personal precautions for emergency responders: Wear chemical protection suit; Wear self-contained breathing apparatus (SCBA).

## 6.2 Environmental precautions

- Avoid release to the environment.
- 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

- Absorb spillage in earth or sand
- Sweep or shovel-up spillage and remove to a safe place
- Place in appropriate container
- Seal containers and label them
- To be disposed of as hazardous waste

## 6.4 Reference to other sections

- See section(s): 7, 8 & 13
- 

**SECTION 7: Handling and storage**

## 7.1 Precautions for safe handling

- Ensure adequate ventilation
  - Avoid breathing dust/fume/gas/mist/vapours/spray.
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## SECTION 7: Handling and storage (....)

- Do not get in eyes, on skin, or on clothing.
- Do not eat, drink or smoke when using this product.
- Eyewash bottles should be available
- Wash thoroughly after handling.
- Contaminated work clothing should not be allowed out of the workplace.
- Contaminated clothing should be laundered before reuse

### 7.2 Conditions for safe storage, including any incompatibilities

- Keep in a cool, dry, well ventilated place
- Avoid extremes of temperature
- Keep container tightly closed.
- Keep in an area equipped with impermeable flooring.
- Keep away from food, drink and animal feedingstuffs
- Keep away from heat and sources of ignition

### 7.3 Specific end use(s)

- Pool / spa treatment
  - Biocide
- 

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

- Methanamine, N-methyl-, polymer with 2-(chloromethyl)oxirane; Epichlorohydrin-dimethylamine-copolymer

No exposure limits have been set for this substance

### 8.2 Exposure controls

- Do not eat, drink or smoke when using this product.
- Engineering controls should be provided to prevent the need for ventilation
- No respiratory protection is needed during normal handling
- Wear suitable protective clothing
- Wear protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and standard EN 374.
- The selection of a suitable glove depends on work conditions and whether the product is present on its own or in combination with other substances. Breakthrough time is dependent on the characteristics of the brand of glove used and the supplier should be consulted.
- Wear safety glasses approved to standard EN 166.
- Ensure eyewash stations and safety showers are close to hand.



Goggles



Gloves



Suit



No Flames



No Smoking

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- Appearance: Liquid; green
- Odour: No information available
- Odour threshold: No information available
- pH: No information available

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**SECTION 9: Physical and chemical properties (....)**

- Melting point/freezing point: No information available
- Initial boiling point and boiling range: No information available
- Flashpoint: No information available
- Evaporation Rate: No information available
- Flammability (solid,gas): No information available
- Upper/lower flammability or explosive limits: No information available
- Vapour Pressure: No information available
- Vapour Density: No information available
- Relative Density: 1.041
- Solubility(ies): Soluble in water
- Partition Coefficient (n-Octanol/Water): No information available
- Autoignition Temperature No information available
- Decomposition temperature: No information available
- Viscosity: No information available
- Explosive Properties: No information available
- Oxidising Properties: Not oxidising

**9.2 Other information**

- None
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**SECTION 10: Stability and reactivity****10.1 Reactivity**

- Stable under normal conditions

**10.2 Chemical stability**

- Considered stable under normal conditions

**10.3 Possibility of hazardous reactions**

- No hazardous reactions known if used for its intended purpose

**10.4 Conditions to avoid**

- Avoid extremes of temperature
- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

**10.5 Incompatible materials**

- Incompatible with strong oxidizing substances

**10.6 Hazardous decomposition products**

- Decomposition products may include toxic and irritant fumes
  - Decomposition products may include nitrogen and carbon oxides
- 

**SECTION 11: Toxicological information****11.1 Information on toxicological effects**

- Acute Toxicity  
Based on available data, the classification criteria are not met
  - Skin corrosion/irritation  
Based on available data, the classification criteria are not met
  - Serious eye damage/irritation  
Based on available data, the classification criteria are not met
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**SECTION 11: Toxicological information (....)**

- Respiratory or skin sensitisation  
Based on available data, the classification criteria are not met
- Germ cell mutagenicity  
No evidence of mutagenic effects
- Carcinogenicity  
No evidence of carcinogenic effects
- Reproductive toxicity  
No evidence of reproductive effects
- Specific target organ toxicity (STOT) - single exposure  
Based on available data, the classification criteria are not met
- Specific target organ toxicity (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
- Contact with eyes  
May cause redness and irritation
- Contact with skin  
May cause redness and irritation
- Ingestion  
The ingestion of significant quantities may cause nausea/vomiting
- Inhalation  
May cause respiratory irritation

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**SECTION 12: Ecological information****12.1 Toxicity**

- Very toxic to aquatic life.
- Very toxic to aquatic life with long lasting effects.
- Classification based on calculation and concentration thresholds
- Methanamine, N-methyl-, polymer with 2-(chloromethyl)oxirane; Epichlorohydrin-dimethylamine-copolymer  
LC50 (Oncorhynchus mykiss) 0.13 mg/l (96 hr)  
EC50 (Daphnia magna): 0.13 mg/l (48 hr)  
EC50 (aquatic algae) 0.22 mg/l (72 hr)

**12.2 Persistence and degradability**

- No information available

**12.3 Bioaccumulative potential**

- No information available

**12.4 Mobility in soil**

- Do not allow to penetrate the ground/soil.

**12.5 Results of PBT and vPvB assessment**

- No information available

**12.6 Other adverse effects**

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**SECTION 12: Ecological information (....)**

- Do not empty into drains
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**SECTION 13: Disposal considerations**

## 13.1 Waste treatment methods

- This material and/or its container must be disposed of as hazardous waste
- Disposal should be in accordance with local, state or national legislation
- Do not discharge into drains or the environment, dispose to an authorised waste collection point
- Do not reuse empty containers without commercial cleaning or reconditioning

## 13.2 Classification

- Waste Codes in accordance with the European Waste catalogue (EWC) are origin-defined. Since this product is used in several industries, no Waste Code can be provided by the supplier. The Waste Code should be determined in arrangement with your waste disposal partner or the responsible authority.
  - The waste must be identified according to the List of Wastes (2000/532/EC)
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**SECTION 14: Transport information**


Dangerous Substance



ENVIRONMENTALLY HAZARDOUS

## 14.1 UN number

- UN No.: 3082

## 14.2 UN proper shipping name

- Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (Methanamine, N-methyl-, polymer with 2-(chloromethyl) oxirane)Á

## 14.3 Transport hazard class(es)Á

- Hazard Class: 9

## 14.4 Packing group

- Packing Group: III

## 14.5 Environmental hazards

- Marine pollutant

## 14.6 Special precautions for user

- No special precautions are required for this product

## 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

- Not applicable

## 14.8 Road/Rail (ADR/RID)

- ADR UN No.: 3082
- Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (Methanamine, N-methyl-, polymer with 2-(chloromethyl) oxirane)
- ADR Hazard Class: 9
- ADR Packing Group: III
- Tunnel Code: Not applicable

## 14.9 Sea (IMDG)

- IMDG UN No.: 3082
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**SECTION 14: Transport information (....)**

- Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (Methanamine, N-methyl-, polymer with 2-(chloromethyl) oxirane)
- IMDG Hazard Class: 9
- IMDG Packing Group: III

## 14.10 Air (ICAO/IATA)

- ICAO UN No.: 3082
- Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (Methanamine, N-methyl-, polymer with 2-(chloromethyl) oxirane)
- ICAO Hazard Class: 9
- ICAO Packing Group: III

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**SECTION 15: Regulatory information**

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

- This Safety Data Sheet is provided in compliance with REACH Regulation (EC) No 1907/2006 as amended by Regulation (EU) 2015/830
- Regulation (EC) No. 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP Regulation) applies in Europe
- The Hazardous Waste (England and Wales) Regulations 2005 apply in the UK
- This product is covered by EU Directive 2012/18/EU (the Seveso III Directive)

## 15.2 Chemical safety assessment

- A REACH chemical safety assessment has not been carried out

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**SECTION 16: Other information**

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.

Revision No. 2.0.0. Revised December 2017.

Changes made: Updated to conform to latest version of REACH. Classification as UN 3082 in Section 14.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

- Aquatic Acute 1, H400: Classification based on calculation and concentration thresholds
- Aquatic Chronic 1, H410: Classification based on calculation and concentration thresholds

Text not given with phrase codes where they are used elsewhere in this safety data sheet:

- H302: Harmful if swallowed
- H400: Very toxic to aquatic life
- H410: Very toxic to aquatic life with long lasting effects

--- end of safety datasheet ---

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