

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

- 1.1 Product Identifier**
 Product Name : Algicide Microcide
 Datasheet Number : SDS034
 Unique Formula Identifier: TW20-3041-E007-WXJ0
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**
 Application of the substance / the mixture For the control of algae in swimming pool water.
 Identified Use(s) Uses advised against Processes involving extreme heat use advised against.
- 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:
 In 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
 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)



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 in accordance with local/regional/national/international regulations.

2.3 Other Hazards

PBT: Not applicable.
vPvB: Not applicable.

SECTION 3 : Composition/Information on Ingredients**3.2 Chemical characterisation:
Description:**

Mixtures
Mixture of substances listed below with nonhazardous additions.

Substance	CAS No	EC No	EINECS No	%W/W
Methanamine, N-methyl-, polymer with (chloromethyl)oxirane	25988-97-0	607-843-9		10 – < 25%

Additional information:

For the wording of the listed hazard phrases refer to section 16.

SECTION 4 : First Aid Measures**4.1 Description of first aid measures**

General information:

No special measures required.

After inhalation:

Supply fresh air; consult doctor in case of complaints.

After skin contact:

Immediately wash with water, soap and rinse thoroughly.

After eye contact:

If skin irritation continues, consult a doctor

Check for and remove any contact lenses.

Rinse opened eye for several minutes under running water.

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:

Treat symptomatically and supportively.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

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:

Carbon monoxide and carbon dioxide

Chlorine compounds

Ammonia

Nitrogen oxides (NO_x)

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:	Cool endangered receptacles with water spray. Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6 : Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures :	Ensure adequate ventilation. Particular danger of slipping on leaked/spilled product.
6.2 Environmental Precautions:	Do not allow to penetrate the ground/soil. Do not allow product to reach sewage system or any water course in the undiluted form. Inform respective authorities in case of seepage into water course or sewage system.
6.3 Methods and material for containment and cleaning up:	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Send for recovery or disposal in suitable receptacles.
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.
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Information about fire - and explosion protection: No special measures required.

7.2 Conditions for safe storage, including any incompatibilities	Storage:
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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: 12

7.3 Specific end use(s)	No further relevant information available.
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SECTION 8 : Exposure Controls/Personal Protection

8.1 Control Parameters

Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

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 precautionary 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.

Storing food in the working area is prohibited.

Wash hands before breaks and at the end of work.

Do not carry impregnated cleaning cloths in pockets.

Respiratory protection:

Not necessary if room is well ventilated.

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/Face Protection

Safety glasses with side-shields conforming to EN166.

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU)

Body protection:

Protective work clothing.

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

Environmental exposure controls

Do not allow to enter the drains, sewers or watercourses.

SECTION 9 : Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

General Information	
Physical state:	Liquid
Colour:	Blue
Odour:	Mild
Odour threshold:	Not determined.
Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	Undetermined
Flammability:	Not applicable.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Flash point:	Not applicable.
Decomposition temperature:	Not determined.
pH-value at 20 °C:	5-8
Viscosity:	
Kinematic viscosity:	Not determined.
Dynamic:	Not determined.
Solubility:	
Water:	Fully miscible.
Partition coefficient n-octanol/water (log value):	Not determined.
Vapour pressure:	Not determined.
Density and/or relative density	
Density at 20°C:	1.041 g/cm ³
Relative density:	Not determined.
Vapour density:	Not detrmined.

9.2 Other Information: NOTE: The physical data presented above are typical values and should not be construed as a specification.

Appearance:	
Form:	Fluid.

Important information on protection of health and environmen and on safety.

Ignition temperature:	Product is not self igniting.
Explosive properties:	Product does not present an explosion hazard.

Solvent content	
VOC (EC)	0.00%

Change in condition	
Evaporation rate:	Not detrmined.

Information with regard to physical hazard classes

Explosives:	Void
Flammable gases:	Void
Aerosols:	Void
Oxidising gases:	Void
Gases under pressure:	Void
Flammable liquids:	Void

9.2 cont..

Flammable solids:	Void
Self-reactive substances and mixtures:	Void
Pyrophoric liquids:	Void
Pyrophoric solids:	Void
Self healing substances and mixtures:	Void
Substances and mixture, which emit flammable gases in contact with water:	Void
Oxidising liquids:	Void
Oxidising solids:	Void
Organic peroxides:	Void
Corrosive to metals:	Void
Desensitised explosives:	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:	Heat and static discharge.
10.5	Incompatible materials:	Strong oxidising agents.
10.6	Hazardous decomposition products:	Ammonia Carbon Monoxide and Carbon Dioxide Hydrogen Chloride (HCl) Nitrogen Oxides (NOx) Chlorine compounds

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	14,429 mg/kg (rat)

CAS: 25988-97-0 Methanamine, N-methyl-,polymer with (chloromethyl)oxirane		
Oral	LD50	1,672 mg/kg (rat)
Dermal	LD50	> 2,000 mg/kg (rabbit)

Primary irritant effect:**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.**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.

11.1 cont...

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

Subacute to chronic toxicity: Prolonged or repeated skin contact may irritate and cause dermatitis.

11.2 Information on other hazards

Endocrine disrupting properties
None of the ingredients are listed

SECTION 12 : Ecological Information

12.1 Toxicity

Aquatic toxicity:
CAS: 25988-97-0 Methanamine, N-methyl-, polymer with (chloromethyl)oxirane
EC50 (96 h) 0.14 mg/l (Bacteria)

12.2	Persistence and degradability	Readily 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	Endocrine disrupting properties	The product does not contain substances with endocrine disrupting properties.
12.7	Other adverse effects	
	Remark	Very toxic for fish
	Additional ecological information:	
	General notes:	Very toxic for aquatic organisms. Also poisonous for fish and plankton in water bodies. Water hazard class 3 (German Regulation) (Self Assessment): extremely hazardous for water Do not allow product to reach ground water, water course or sewage system, even in small quantities. Danger to drinking water if even extremely small quantities leak into the ground.

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 waste.

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

- 13.1 cont..**
Anyone classifying hazardous waste and determining its fate must be qualified in accordance with state and international legislation.

Uncleaned packaging:**Recommendation:**

Container remains hazardous when empty.

Continue to observe all precautions.

Disposal must be made according to official regulations.

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 | UN3082 |
| 14.2 | UN proper shipping name
ADR/RID/ADN

IMDG

IATA | UN3082 Environmentally Hazardous Substance, Liquid
N.O.S (Methanamine, N-mthyl-, polymer with
(chloromethyl)oxirane)
Environmentally Hazardous Substance, Liquid
N.O.S (Methanamine, N-mthyl-, polymer with
(chloromethyl)oxirane), Marine Pollutant

Environmentally Hazardous Substance, Liquid
N.O.S (Methanamine, N-mthyl-, polymer with
(chloromethyl)oxirane) |
| 14.3 | Transport hazard class(es)
ADR/RID/ADN
Class
Label

IMDG, IATA
Class
Label | <div style="display: flex; align-items: center;">   </div> <div style="display: flex; align-items: center;">   </div> |
| 14.4 | Packing group
ADR/RID/ADN, IMDG, IATA | 9 (M6) Miscellaneous dangerous substances and articles.
9

9 Miscellaneous dangerous substances and articles.
9

III |
| 14.5 | Environmental hazards:

Marine pollutant:
Special marking (ADR/RID/ADN):
Special marking (IATA): | Product contains environmentally hazardous substances:
Polyquarternary ammonium compound
Symbol (fish and tree)
Symbol (fish and tree)
Symbol (fish and tree) |
| 14.6 | Special precautions for user
Hazard identification number (Kemler code):
Hazchem code:
EMS Number:
Stowage Category: | Warning: Miscellaneous dangerous substances and articles

90
3Z
F-A.S-F
A |

14.7 Transport in bulk according to IMO instruments

Not applicable

Transport/Additional information:

Amounts up to 5kg or 5L per single or inner package are not regulated according to ADR/RID SP 375, IMDG 2.10.2.7 and IATA SP A197.

ADR/RID/ADN**Limited quantities (LQ)**

5L

Excepted quantities (EQ)

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

Transport category

3

IMDG**Limited quantities (LQ)**

5L

Excepted quantities (EQ)

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

UN "Model Regulation":

UN3082 Environmentally Hazardous Substance,
Liquid, N.O.S. (Methanamine, N- Methyl-, Polymer
with (Chloromethyl) oxirane), 9, III

SECTION 15 : Regulatory Information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
Poisons Act

Regulated explosives precursors

None of the ingredients are listed

Regulated poisons

None of the ingredients are listed

Reportable explosives precursors

None of the ingredients are listed

Reportable poisons

None of the ingredients are listed

Control Of Major Accident Hazards Regulations 2015 (COMAH)

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

COMAH 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.

This Safety Data Sheet is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

Relevant phrases

H302 Harmful if swallowed.

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)

VOC: Volatile Organic Compounds (USA, EU)

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

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

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