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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

- Datasheet Number: SP322 Version 2.0.0
- Product Name: Winterising Algaecide
- Contains Methanamine, N-methyl-, polymer with (chloromethyl)oxirane, copper sulphate pentahydrate, and etidronic acid

#### 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: Total Pool Chemicals Ltd
- Address of Supplier: Unit 1-5 , Pool Bank Business Park  
High Street, Tarvin  
Chester  
UK  
CH3 8JH
- Telephone: +44 (0)1829 740290
- Email: sales@totalpool.co.uk

#### 1.4 Emergency telephone number

- +44 (0)1829 740290 (Office Hours)
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### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

- Classification (REGULATION (EC) No 1272/2008) [CLP/GHS]: Acute Tox. 4, H302; Eye Dam. 1, H318; 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



- Signal Word: Danger
- Hazard statements
  - H302 - Harmful if swallowed.
  - H318 - Causes serious eye damage.
  - H410 - Very toxic to aquatic life with long lasting effects.
- Precautionary statements
  - P102 - Keep out of reach of children.
  - P280 - Wear eye protection.
  - P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
  - P305+P351+P338+P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
  - P391 - Collect spillage.
  - P501 - Dispose of contents/container in accordance with local/regional/national/international regulations.

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

- Supplemental Hazard information (EU)  
None

## 2.3 Other hazards

- May be corrosive to metals.
- 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

- Not applicable

## 3.2 Mixtures

Chemical Name	Conc.	CAS No.	EC No.	Classification (REGULATION (EC) No 1272/2008) [CLP/GHS]	REACH Registration Number	SCL/ M-Factor/ ATE	WEL / OEL
Methanamine, N-methyl-, polymer with (chloromethyl)oxirane	10 - 30%	25988-97-0	-	Acute Tox. 4, H302 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	-	-	None
Copper sulphate pentahydrate	1 - 10%	7758-99-8	231-847-6	Acute Tox. 4, H302 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	01-2119520566-40-XXXX	M=10	None
Etidronic acid	1 - 10%	2809-21-4	220-552-8	Met. Corr. 1, H290 Acute Tox. 4, H302 Eye Dam. 1, H318	01-2119510391-53-XXXX	-	None

**SECTION 4: First aid measures**

## 4.1 Description of first aid measures

- Contact with eyes
  - If substance has got into eyes, immediately wash out with plenty of water for several minutes
  - Irrigate eyes thoroughly whilst lifting eyelids
  - Remove contact lenses, if present and easy to do. Continue rinsing.
  - Get immediate medical advice/attention.
- Contact with skin
  - Wash affected area with plenty of soap and water
  - Take off contaminated clothing and wash it before reuse.
  - If skin irritation occurs: Get medical advice/attention.
- Ingestion
  - Rinse mouth with water (do not swallow)
  - Do NOT induce vomiting.
  - Get immediate medical advice/attention.
- Inhalation
  - If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
  - IF exposed or concerned: Get medical advice/attention.

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

- Contact with eyes
  - Causes redness and irritation
  - Lachrymatory effects (makes eyes water)
  - Can cause damage to the eyes

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

- Contact with skin  
May cause redness and irritation
- Ingestion  
Can cause soreness and redness of the mouth and throat.  
The ingestion of significant quantities may cause nausea/vomiting
- Inhalation  
May cause respiratory tract irritation.  
May cause coughing and tightness of chest

4.3 Indication of any immediate medical attention and special treatment needed

- Treat symptomatically
  - Eyewash bottles should be available
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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media: Not flammable. In case of fire use extinguishing media appropriate to surrounding conditions
- Unsuitable extinguishing media: No information available

### 5.2 Special hazards arising from the substance or mixture

- Spillage causes slippery surface
- Gives off irritating or toxic fumes (or gases) in a fire.
- Decomposition products may include hydrogen chloride
- Decomposition products may include nitrogen and carbon oxides

### 5.3 Advice for firefighters

- Keep container(s) exposed to fire cool, by spraying with water
  - Collect contaminated fire extinguishing water separately. This MUST not be discharged into drains. Prevent fire extinguishing water from contaminating surface or ground water.
  - Special protective equipment: Wear self-contained breathing apparatus (SCBA). Wear full protective clothing including chemical protection suit.
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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

- Rescuers should take suitable precautions to avoid becoming casualties themselves
- Only trained and authorised personnel should carry out emergency response
- Personal precautions for non-emergency personnel: Avoid contact with skin and eyes; Do not breathe spray/mists; Wear protective clothing as per section 8; Wash thoroughly after handling.
- Personal precautions for emergency responders: Evacuate the area and keep personnel upwind; Wear self-contained breathing apparatus (SCBA); Wear suitable protective clothing, including eye/face protection and gloves (PVC are recommended)

### 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

- Stop leak if safe to do so.
- Spillage causes slippery surface

**SECTION 6: Accidental release measures (....)**

- Small spills  
Wipe up spillage with damp absorbent cloth or towel
- Large spills  
Contain the spillage using bunding  
Absorb spillage in inert material and shovel up  
Place in sealable container  
Seal containers and label them  
Remove contaminated material to safe location for subsequent disposal  
Seek expert advice for removal and disposal of all contaminated materials and wastes  
Flush spill area with copious amounts of water

## 6.4 Reference to other sections

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

**SECTION 7: Handling and storage**

## 7.1 Precautions for safe handling

- Use only in well ventilated areas
- Avoid contact with skin and eyes
- Avoid formation of spray/mist/aerosols
- Wear protective clothing as per section 8
- Do not eat, drink or smoke when using this product.
- Contaminated clothing should be laundered before reuse
- Use good personal hygiene practices
- Wash thoroughly after handling.
- Ensure eyewash stations and safety showers are nearby

## 7.2 Conditions for safe storage, including any incompatibilities

- Keep in a cool, dry, well ventilated place
- Keep in an area equipped with impermeable flooring.
- Protect from heat
- Protect from light
- Keep container tightly closed.
- Keep away from food, drink and animal feedingstuffs
- Incompatible with strong acids
- Incompatible with strong oxidizing substances

## 7.3 Specific end use(s)

- Pool / spa treatment

**SECTION 8: Exposure controls/personal protection**

## 8.1 Control parameters

- If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.  
Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace exposure - Measurement of exposure by inhalation to chemical agents - Strategy for testing compliance with occupational exposure limit values). European Standard EN 14042 (Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents). European Standard EN 482 (Workplace exposure. General requirements for the performance of procedures for the measurement of chemical agents). Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

- Methanamine, N-methyl-, polymer with (chloromethyl)oxirane  
No exposure limits have been set for this substance

## SECTION 8: Exposure controls/personal protection (....)

- Copper sulphate pentahydrate
  - DNEL (inhalational) 1 mg/m<sup>3</sup> Industry, Long Term, Systemic Effects
  - DNEL (inhalational) 1 mg/m<sup>3</sup> Industry, Long Term, Local Effects
  - DNEL (dermal) 137 mg/kg (bw/day) Industry, Long Term, Systemic Effects
  - DNEL (oral) 41 µg/kg (bw/day) Consumer, Long Term, Systemic Effects
  - DNEL (oral) 82 µg/kg (bw/day) Consumer, Acute/Short Term, Systemic Effects
  - PNEC aqua (freshwater) 7.8 µg/L
  - PNEC aqua (marine water) 5.2 µg/L
  - PNEC (STP) 230 µg/L
  - PNEC sediment (freshwater) 87 mg/kg
  - PNEC sediment (marine water) 676 mg/kg
  - PNEC terrestrial (soil) 65 mg/kg
- Etidronic acid
  - DNEL (inhalational) 12 mg/m<sup>3</sup> Industry, Long Term, Systemic Effects
  - DNEL (dermal) 34 mg/kg (bw/day) Industry, Long Term, Systemic Effects
  - DNEL (inhalational) 2.95 mg/m<sup>3</sup> Consumer, Long Term, Systemic Effects
  - DNEL (dermal) 17 mg/kg (bw/day) Consumer, Long Term, Systemic Effects
  - DNEL (oral) 1.7 mg/kg (bw/day) Consumer, Long Term, Systemic Effects
  - DNEL (oral) 1.7 m/kg (bw/day) Consumer, Acute/Short Term, Systemic Effects
  - PNEC aqua (freshwater) 68 µg/L
  - PNEC aqua (marine water) 6.8 µg/L
  - PNEC (STP) 40 mg/L
  - PNEC sediment (freshwater) 136 mg/kg
  - PNEC sediment (marine water) 13.6 mg/kg
  - PNEC terrestrial (soil) 10 mg/kg
  - PNEC secondary poisoning (food) 3.7 mg/kg

### 8.2 Exposure controls

- Selection and use of personal protective equipment should be based on a risk assessment of exposure potential
- Engineering controls
  - Ensure adequate ventilation
  - Keep in an area equipped with impermeable flooring.
- Respiratory protection
  - No respiratory protection is needed during normal handling
  - In case of insufficient ventilation, wear suitable respiratory equipment
  - Where a reusable half mask respirator is required, use EN 140, with gas/vapour filter EN 14387 type ABEK, or EN 405; EN 1827
- Eye/face protection
  - Wear goggles giving complete eye protection approved to standard EN 166.
- Skin protection
  - 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.
  - PVC are recommended
- Hygiene measures
  - Do not eat, drink or smoke when using this product.
  - Use good personal hygiene practices
  - Wash thoroughly after handling.
  - Ensure eyewash stations and safety showers are nearby
- Environmental exposure controls
  - Do not empty into drains
  - Do not allow to penetrate the ground/soil.

**SECTION 8: Exposure controls/personal protection (....)****SECTION 9: Physical and chemical properties**

## 9.1 Information on basic physical and chemical properties

- Appearance: Pale blue solution
- Odour: No information available
- Odour threshold: No information available
- pH: < 2
- 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): Not flammable
- Upper/lower flammability or explosive limits: Not applicable
- Vapour Pressure: No information available
- Vapour Density: Not applicable
- Relative Density: 1.070
- Solubility(ies): Miscible
- Partition Coefficient (n-Octanol/Water): No information available
- Autoignition Temperature: No information available
- Decomposition temperature: No information available
- Viscosity: Not applicable
- Explosive Properties: Non-explosive
- Oxidising properties: Not oxidising

## 9.2 Other information

- No information available

**SECTION 10: Stability and reactivity**

## 10.1 Reactivity

- Stable under normal conditions

## 10.2 Chemical stability

- 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 overheating

## 10.5 Incompatible materials

- Incompatible with strong oxidizing substances
- Incompatible with strong acids

## 10.6 Hazardous decomposition products

- Decomposition products may include hydrogen chloride
- Decomposition products may include nitrogen and carbon oxides

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

- Acute Toxicity  
Harmful if swallowed.  
Classification based on calculation and concentration thresholds

Substances

Chemical Name	LD <sub>50</sub> (oral, rat)	LC <sub>50</sub> (inhalation, rat)	LD <sub>50</sub> (dermal, rabbit)
Methanamine, N-methyl-, polymer with (chloromethyl)oxirane	No data available	No data available	> 2 000 mg/kg
Copper sulphate pentahydrate	482 mg/kg	No data available	2 000 mg/kg (rat)
Etidronic acid	1 878 mg/kg	No data available	5 000 mg/kg

- Skin corrosion/irritation  
Based on available data, the classification criteria are not met
- Serious eye damage/irritation  
Causes serious eye damage.  
Classification based on calculation and concentration thresholds
- 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

Substances

Chemical Name	NOAEL (oral, rat)	NOAEC (inhalation, rat)	NOAEL (dermal, rat)
Methanamine, N-methyl-, polymer with (chloromethyl)oxirane	No data available	No data available	No data available
Copper sulphate pentahydrate	No data available	No data available	No data available
Etidronic acid	112 mg/kg bw/day (Effect on fertility) 112 mg/kg bw/day (Effect on developmental toxicity)	No data available	No data available

- 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

Substances

Chemical Name	NOAEL (oral, rat)	NOAEC (inhalation, rat)	NOAEL (dermal, rat)
Methanamine, N-methyl-, polymer with (chloromethyl)oxirane	No data available	No data available	No data available
Copper sulphate pentahydrate	1 000 ppm	2 mg/m <sup>3</sup> air	No data available
Etidronic acid	41 - 78 mg/kg bw/day	No data available	No data available

## SECTION 11: Toxicological information (....)

- Aspiration hazard  
Based on available data, the classification criteria are not met
- Contact with eyes  
Causes redness and irritation  
Lachrymatory effects (makes eyes water)  
Can cause damage to the eyes
- Contact with skin  
May cause redness and irritation
- Ingestion  
Can cause soreness and redness of the mouth and throat.  
The ingestion of significant quantities may cause nausea/vomiting
- Inhalation  
May cause respiratory tract irritation.  
May cause coughing and tightness of chest

## SECTION 12: Ecological information

### 12.1 Toxicity

- Very toxic to aquatic life with long lasting effects.
- Classification based on calculation and concentration thresholds

#### Substances

Chemical Name	LC <sub>50</sub> (fish)	EC <sub>50</sub> (aquatic invertebrates)	EC <sub>50</sub> (aquatic algae)
Methanamine, N-methyl-, polymer with (chloromethyl)oxirane	(4 days) 0.13 mg/L	(48 h) 0.13 mg/L	ErC50 (72 h) 0.22 mg/L
Copper sulphate pentahydrate	(4 days) 2.8 - 9 150 µg/L	(48 h) 1 - 1 213 µg/L	(72 h) 16.5 - 987 µg/L
Etidronic acid	(4 days) 195 - 2 180 mg/L	(48 h) 527 - 1 770 mg/L	No data available

### 12.2 Persistence and degradability

- Not readily biodegradable

### 12.3 Bioaccumulative potential

- Potential bioaccumulation

### 12.4 Mobility in soil

- Absorbs on soil

### 12.5 Results of PBT and vPvB assessment

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

### 12.6 Other adverse effects

- No information available

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

- 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

## SECTION 13: Disposal considerations (....)

- The waste must be identified according to the List of Wastes (2000/532/EC)
- Hazardous Property Code(s): HP 4 Irritant; HP 6 Acute Toxicity; HP 14 Ecotoxic

## SECTION 14: Transport information

UN 3077 and UN 3082, when carried in single or combination packagings containing a net quantity per single or inner packaging of 5L/kg or less, are not subject to the provisions of ADR, RID, IMDG or IATA, provided the package meets the general packing quality provisions.



### 14.1 UN number or ID 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; COPPER SULPHATE PENTAHYDRATE)

### 14.3 Transport hazard class(es)

- Hazard Class: 9

### 14.4 Packing group

- Packing Group: III

### 14.5 Environmental hazards

- Marine pollutant

### 14.6 Special precautions for user

- No information available

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

- Not applicable

### 14.8 Road/Rail (ADR/RID)

- Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(METHANAMINE, N-METHYL-, POLYMER WITH 2-(CHLOROMETHYL) OXIRANE; COPPER SULPHATE PENTAHYDRATE)
- ADR UN No.: 3082
- ADR Hazard Class: 9
- ADR Packing Group: III
- Tunnel Code: (-)

### 14.9 Sea (IMDG)

- Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(METHANAMINE, N-METHYL-, POLYMER WITH 2-(CHLOROMETHYL) OXIRANE; COPPER SULPHATE PENTAHYDRATE)
- IMDG UN No.: 3082
- IMDG Hazard Class: 9
- IMDG Pack Group.: III

### 14.10 Air (ICAO/IATA)

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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; COPPER SULPHATE PENTAHYDRATE)
  - ICAO UN No.: 3082
  - 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
- This product is covered by the EU Biocides Regulation 528/2012 (EU BPR)
- This product is covered by EU Directive 2012/18/EU (the Seveso III Directive)
- UN 3077 and UN 3082, when carried in single or combination packagings containing a net quantity per single or inner packaging of 5L/kg or less, are not subject to the provisions of ADR, RID, IMDG or IATA, provided the package meets the general packing quality provisions.
- CAS 25988-97-0 is listed in Annex III of REACH as # Suspected hazardous to the aquatic environment: DEMETRA Daphnia Magna toxicity model in VEGA (Q)SAR platform predicts that the chemical has a 48h EC50 of 29.44 mg/L (good reliability) # Suspected skin irritant: The Danish QSAR database contains information indicating that the substance is predicted as skin irritant # Suspected skin sensitiser: CAESAR skin sensitisation model in VEGA (Q)SAR platform predicts that the chemical is Sensitizer (moderate reliability) # Suspected toxic for reproduction: CAESAR developmental toxicity model in VEGA (Q)SAR platform predicts that the chemical is Toxicant (moderate reliability)

### 15.2 Chemical safety assessment

- No information available
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## SECTION 16: Other information

The statements made herein are based on our best present experience and are intended to describe product safety requirements. They should not therefore be considered as a warranty of specific properties.

Sources of data: Information from published literature and supplier safety data sheets

Revision No. 2.0.0. Revised November 2020.

Changes made: Revisions to all sections to conform to Regulation (EU) 2015/830.

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

- Acute Tox. 4, H302: Classification based on calculation and concentration thresholds
- Eye Dam. 1, H318: Classification based on calculation and concentration thresholds
- 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:

- H290: May be corrosive to metals
- H302: Harmful if swallowed
- H318: Causes serious eye damage
- H400: Very toxic to aquatic life
- H410: Very toxic to aquatic life with long lasting effects

## Acronyms

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**SECTION 16: Other information (....)**

- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstracts Service
- DNEL: Derived No-Effect Level
- EC: European Community
- EC<sub>50</sub>: Effective Concentration, 50%
- GHS: Globally Harmonised System
- LC<sub>50</sub>: Lethal Concentration, 50%
- LD<sub>50</sub>: Lethal Dose, 50%
- NOAEC: No observed adverse effect concentration
- NOAEL: No observed adverse effect level
- OEL: Occupational Exposure Limit
- PBT: Persistent, Bioaccumulative and Toxic
- PNEC: Predicted No-Effect Concentration
- REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
- SCL: Specific Concentration Limit
- vPvB: very Persistent and very Bioaccumulative
- WEL: Workplace Exposure Limit

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--- end of safety datasheet ---