

SAFETY DATA SHEET

Product Name: Algaecide				
1. Chemical product and company identification				
Product name	Algaecide			
Chemical name	N,N-Dimethyl-2-hydroxypropylammonium chloride polymer			
Product type and use	Swimming pools			
Company identification	Total Pool Chemicals Ltd			
Address and telephone number	Unit 1, Pool Bank Park High Street, Tarvin, Chester CH3 8JH			
Emergency telephone number	01829 740290			
2. Composition/Information on ingredients				
Chemical Name	CAS No	Content %	Symbol	R-phrase(s)
N,N-Dimethyl-2-hydroxypropylammonium Chloride polymer	25988-97-0	50 50	N	50
3. Hazards identification				
Classification	Very toxic to aquatic organisms			
4. First-aid measures				
Skin contact	If skin irritation appears or persists, call a physician. Wash with water and soap as a precaution			
Contact with eyes Ingestion	Immediately flush eye(s) with plenty of water. If eye irritation persists, consult a specialist.			
Ingestion	Do not induce vomiting without medical advice. Immediately give large quantities of water to drink. Never give anything by mouth to an unconscious person.			

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5. Fire-fighting measures	
Suitable extinguishing media	Dry powder, water spray, foam
Specific hazards during fire fighting	Heating or fire can release toxic gas
Special protective equipment	Self contained breathing apparatus for fire fighting if necessary. Keep containers tightly closed in a cool, well ventilated place.
Additional advice	Water mist may be used to cool closed containers.
6. Accidental release measures	
Personal precautions:	Use appropriate protective equipment
Environmental precautions:	Keep spill out of sewers and open bodies of water
Methods for cleaning up:	Sweep up spills into appropriate containers for recovery or disposal. Keep spill out of sewers and open bodies of water.
7. Handling and Storage	
Safe Handling advice:	No special precautions required
Advice on protection against fire And explosion	Take precautionary measures against static discharges
Storage	
Requirements for storage areas and containers	Keep container tightly closed. To maintain product quality, do not store in heat or direct sunlight. Keep in a dry, cool and well-ventilated place.
Other data	Product quality will be affected by contact with anionic surfactants.
8. Exposure controls/Personal Protection	
Personal protective equipment	
- Hygiene measures	Handle in accordance with good industrial hygiene and safety practice.
- Respiratory protection	No personal respiratory protective equipment normally required.
- Hand protection	Rubber gloves
- Eye protection	Safety glasses

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9. Physical and chemical properties	
Appearance	
State of aggregation	Liquid
Form	Viscous
Colour	Colourless
Odour	Amine-like
pH	7.7 – 8.7 (100 g/l)
Setting point	ca –15°C
Boiling point/range	ca 100°C
Density	1.15 g/cm ³
Water solubility	Completely miscible
Viscosity, dynamic	550 mPa.s (5°C) 200 mPa.s (25°C)
10. Stability and reactivity	
Conditions to avoid	No data available
Hazardous reactions	Stable under normal conditions
11. Toxicological information	
Acute oral toxicity (LD50)	>2000 mg/kg Species: rat Method: OECD Test Guideline 401
Skin irritation	Non-irritant Species: rabbit Exposure time: 4 h Method: OECD Test Guideline 404
Eye irritation	Mild irritant Species: rabbit Method: OECD Test Guideline 405

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12. Ecological Information	
Toxicity to fish (LC50)	0.27 mg/l Species: zebra fish Acute toxicity Exposure time: 96 h Method:OECD 203
Toxicity to Daphnia (EC50)	0.14 mg/l Species: Daphnia magna Immobilisation Exposure time: 48 h Method:OECD TG 202
Toxicity to algae (ErC50)	0.18 mg/l Species: Scenedesmus sp Growth inhibition Exposure time: 72 h Method: OECD TG 201
Toxicity to bacteria (EC50)	150 mg/l Species:activated sludge Respiration inhibition Exposure time: 3 h Method: OECD 209
Mobility Behaviour in environmental compartments	Adsorption/Soil Immobile
Persistence and degradability Stability in water	Abiotic degradation Hydrolytically stable Halflive value $\frac{1}{2}$:-> 360 d pH 4-9 Method: OECD Test Guideline 111
Biodegradability	Modified sturm test: 81.0% Testing period: 28 d Method: OECD 301B
13. Disposal Considerations	
Waste from residues	The organic ingredients can be incinerated in a suitable installation when in accordance with local regulations.
Contaminated packaging	Where possible recycling is preferred to disposal or incineration.

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14. Transport Information

UN No	n.a.
Proper Shipping Name	n.a.
Packaging Group	n.a.
Transport	Not classified for transport
ADR Class	n.a.
ICAO/IATA/IMDG	n.a.

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15. Regulatory Information	
Labelling according to Directive 88/379/EEC	
Danger symbol(s)	Dangerous for the environment
R-Phrase(s)	R50: Very toxic to aquatic organisms
S-Phrase(s)	S61: Avoid release to the environment. Refer to special instructions/safety data sheets.
National legislation	
Water contaminating class (Germany)	WGK 2: water endangering.
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.	