

MATERIAL SAFETY DATA SHEET

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All Clear Spa Algaecide

1. Product And Company Identification			
Supplier Aqua Tri 17872 N. Mitchell Irvine, CA 92614 United States Telephone Number: (949) 474-7077 FAX Number: (949) 474-7024		Manufacturer Advantis Technologies, Inc. 1400 Bluegrass Lakes Parkway Alpharetta, GA 30004 United States Telephone Number: (770) 521-5999 FAX Number: (770) 521-5959 Web Site: www.poolspacare.com	
Issue Date: 09/14/2004 Product Name: Spa Algaecide Chemical Name: Poly(oxyethylene(Dimethyliminio)Ethylene(Dimethyliminio)Ethylene Dichloride) Chemical Family: Polymeric Quaternary Ammonium Compound MSDS Number: 307			
2. Composition/Information On Ingredients			
Ingredient Name	CAS Number		Percent Of Total Weight
Poly(oxyethylene(dimethyliminio)Ethylene(dimethyliminio)ethylene dichloride)	31512-74-0		
Ingredients listed in this section have been determined to be hazardous as defined in 29CFR 1910.1200. Materials determined to be health hazards are listed if they comprise 1% or more of the composition. Materials identified as carcinogens are listed if they comprise 0.1% of more or the composition. Information on proprietary materials is available in 29CFR 1910.1200(i)(1).			
3. Hazards Identification			
Primary Routes(s) Of Entry Skin Contact, Eye Contact, Inhalation			
Eye Hazards Slightly hazardous in case of eye contact (irritant).			
Skin Hazards Slightly hazardous in case of skin contact (irritant). Non-sensitizer for skin. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.			
Ingestion Hazards Ingestion is not expected to be a primary route of exposure.			
Inhalation Hazards Slightly hazardous in case of inhalation. Effects will depend on concentration and length of time of exposure.			
Subchronic (Target Organ Effects) May cause damage to the following organs: upper respiratory tract, skin, eyes.			
Chronic/Carcinogenicity Effects Not tested by the manufacturer. Not shown as a carcinogen by OSHA, IARC, or NTP. A two year rat carcinogenicity study showed a slight increase in c-cell adenomas in female rats. Studies with male rats and male and female mice did not show any evidence of carcinogenic response. This product is not considered a carcinogen.			
Signs And Symptoms Irritation of Eyes and Respiratory Passages			

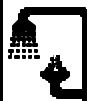
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3. Hazards Identification - Continued

Conditions Aggravated By Exposure

None Known

First Aid (Pictograms)



4. First Aid Measures

Eye

Flush immediately with copious amounts of tap water or normal saline (minimum of 15 minutes). Take exposed individual to a health care professional, preferably an ophthalmologist, for further evaluation.

Skin

Wash exposed area with plenty of soap and water. Repeat washing. Remove contaminated clothing and wash thoroughly before reuse. If irritation persists consult a health professional.

Ingestion

DO NOT INDUCE VOMITING. Rinse with copious amounts of water or milk, first. Irrigate the esophagus and dilute stomach contents by slowly giving one to two glasses of water or milk. Avoid giving alcohol or alcohol related products. In cases where the individual is semi-comatose, comatose, or is convulsing, DO NOT GIVE FLUIDS BY MOUTH. In case of intentional ingestion of the product, seek medical assistance immediately; take individual to nearest medical facility.

Inhalation

If exposure by inhalation is suspected, immediately move exposed individual to fresh air. If individual experiences nausea, headache, dizziness, has difficulty breathing or is cyanotic, seek a health care professional immediately.

Note To Physician

No Specific Antidote is known. Treat Symptoms.
Evaluate Principal Route of Entry, Seek appropriate medical attention. Never give anything by mouth to an unconscious person.

Fire Fighting (Pictograms)



5. Fire Fighting Measures

Flash Point: >212 °F

Flash Point Method: Closed Cup

Extinguishing Media

Water fog, carbon dioxide, foam, dry chemical.

6. Accidental Release Measures

Contain and/or absorb spill with inert material (e.g. sand, vermiculite). Avoid release to the environment. Do not flush to sewer.

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Handling & Storage (Pictograms)



7. Handling And Storage

Handling Precautions

Avoid contact with eyes. Wash thoroughly after handling. Wash hands before eating, drinking, or smoking.

Storage Precautions

Store in a cool dry place. Keep out of reach of children.

Work/Hygienic Practices

Use safe chemical handling procedures suitable for the hazards presented by this material. Do not contaminate Water Food or Feed by storage or cleaning equipment.

Protective Clothing (Pictograms)



8. Exposure Controls/Personal Protection

Engineering Controls

Local exhaust acceptable. Special exhaust not required

Eye/Face Protection

Safety glasses with side shields or goggles recommended.

Skin Protection

Chemical-resistant gloves.

Respiratory Protection

General room ventilation is normally adequate.

9. Physical And Chemical Properties

Appearance

Clear, blue liquid

Odor

Mild

Chemical Type: Mixture

Physical State: Liquid

Melting Point: 32 °F <0 °C

Boiling Point: 212 °F >100 °C

Specific Gravity: 1.01 g/cm³

Percent Volitales: Not established

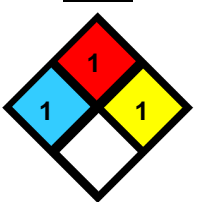
Vapor Pressure: Not established

pH Factor: 6-6.5

Solubility: Easily soluble in cold/hot water

Evaporation Rate: Not established

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10. Stability And Reactivity									
Stability: Stable under normal conditions of use and storage									
Incompatible Materials Anionic Polymers									
Hazardous Decomposition Products Carbon monoxide may be formed upon burning.									
11. Toxicological Information									
No Data Available...									
12. Ecological Information									
No Data Available...									
13. Disposal Considerations									
Refer to applicable local, state and federal regulations as well as industry standards.									
14. Transport Information									
Proper Shipping Name Environmentally Hazardous Substance, Liquid, n.o.s., (Poly[oxyethylene(dimethyliminio)ethylene(dimethyliminio)ethylene dichloride]), Marine Pollutant									
Hazard Class 9, PGIII									
DOT Identification Number UN3082									
Additional Shipping Paper Description North American Emergency Response Guide No. 171 Not regulated by DOT for ground or air shipments [see exception for marine pollutants 49CFR171.4(c)].									
15. Regulatory Information									
State Regulations California Proposition 65: This product had been reviewed for Prop 65 components and the following applies: Warning: This product may contain substance(s) which are known to the State of California to cause cancer or reproductive harm. (Contents may contain trace levels of (<10 ppm) of Dichloroethyl ether, 1,4-Dioxane and (<20 ppb) N-nitrosodimethylamine). Trace contaminants from Poly[oxyethylene(diamethyiminio)ethylene(diethyliminio)ethylene dichloride)									
NFPA	HMIS								
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #00b0f0; color: white;">HEALTH</td> <td style="text-align: center;">1</td> </tr> <tr> <td style="background-color: #ff0000; color: white;">FLAMMABILITY</td> <td style="text-align: center;">1</td> </tr> <tr> <td style="background-color: #ffff00; color: black;">REACTIVITY</td> <td style="text-align: center;">1</td> </tr> <tr> <td>PERSONAL PROTECTION</td> <td style="text-align: center;">B</td> </tr> </table>	HEALTH	1	FLAMMABILITY	1	REACTIVITY	1	PERSONAL PROTECTION	B
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FLAMMABILITY	1								
REACTIVITY	1								
PERSONAL PROTECTION	B								
16. Other Information									
Revision/Preparer Information MSDS Preparer: JHW This MSDS Superceeds A Previous MSDS Dated: 03/08/2002									
Reference Documentation									

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