
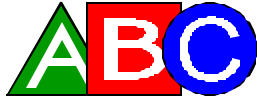


# MATERIAL SAFETY DATA SHEET

## All Clear Concentrated Algaecide 60

1. Product And Company Identification			
<b>Supplier</b> Aqua Tri 17872 N. Mitchell Irvine, CA 92614 United States  Telephone Number: (949) 474-7707 FAX Number: (949) 474-7024 Web Site: www.poolspacare.com		<b>Manufacturer</b> 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	
<b>Issue Date:</b> 09/13/2004  <b>Product Name:</b> Concentrated Algaecide 60 <b>Chemical Name:</b> Poly(oxyethylene(Dimethyliminio)Ethylene(Dimethyliminio)Ethylene Dichloride) <b>Chemical Family:</b> Polymeric Quaternary Ammonium Compound <b>MSDS Number:</b> 4			
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			
<b>Primary Routes(s) Of Entry</b> Skin Contact, Eye Contact, Inhalation			
<b>Eye Hazards</b> Slightly hazardous in case of eye contact (irritant).			
<b>Skin Hazards</b> Slightly hazardous in case of skin contact (irritant). Non-sensitizer for skin. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.			
<b>Ingestion Hazards</b> Ingestion is not expected to be a primary route of exposure.			
<b>Inhalation Hazards</b> Slightly hazardous in case of inhalation. Effects will depend on concentration and length of time of exposure.			
<b>Subchronic (Target Organ Effects)</b> May cause damage to the following organs: upper respiratory tract, skin, eyes.			
<b>Chronic/Carcinogenicity Effects</b> 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.			
<b>Signs And Symptoms</b> Irritation of Eyes and Respiratory Passages			

## All Clear Concentrated Algaecide 60

<b>3. Hazards Identification - Continued</b>
<b>Conditions Aggravated By Exposure</b> None Known
<b>First Aid (Pictograms)</b> 
<b>4. First Aid Measures</b> <b>Eye</b> 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. <b>Skin</b> 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. <b>Ingestion</b> 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. <b>Inhalation</b> 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. <b>Note To Physician</b> 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.
<b>Fire Fighting (Pictograms)</b> 
<b>5. Fire Fighting Measures</b> <b>Flash Point:</b> >212 °F <b>Flash Point Method:</b> Closed Cup <b>Extinguishing Media</b> Water fog, carbon dioxide, foam, dry chemical.
<b>6. Accidental Release Measures</b> Contain and/or absorb spill with inert material (e.g. sand, vermiculite). Avoid release to the environment. Do not flush to sewer.

## All Clear Concentrated Algaecide 60

### 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, pale yellow liquid

#### Odor

Mild

**Chemical Type:** Mixture

**Physical State:** Liquid

**Melting Point:** 32 °F <0 °C

**Boiling Point:** 212 °F >100 °C

**Specific Gravity:** 1.15 g/cm<sup>3</sup>

**Percent Volitales:** Not established

**Vapor Pressure:** Not established

**pH Factor:** 6-8

**Solubility:** Easily soluble in cold/hot water

**Viscosity:** Kinetic: 125cS

**Evaporation Rate:** Not established

## All Clear Concentrated Algaecide 60

### 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

**Skin Effects**

Dermal LD50 = >2000 mg/kg Rabbit

**Acute Oral Effects**

Oral LD50 = 1951 mg/kg Male rat

Oral LD50 = 2587 mg/kg Female rat

**Acute Inhalation Effects**

Inhalation LD50 = 2.9ppm (4 hours) Rat

### 12. Ecological Information

**Acute Toxicity - Fish And Invertebrates**

LC50 = 0.37 mg/L 48 hours Invertebrate

LC50 = 0.26 mg/L 96 hours Fathead Minnow

LC50 = 0.21 mg/L 96 hours Bluegill sunfish

LC50 = 0.047 mg/L 96 hours Rainbow Trout

LC50 = >600 mg/L 96 hours Sheepshead minnow

LC50 = 13 mg/L 96 hours Mysid shrimp

### 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(diamethylimino)ethylene(diethylimino)ethylene dichloride]

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<b>NFPA</b>	<b>HMIS</b>								
	<table border="1"><tr><td>HEALTH</td><td style="text-align: center;">1</td></tr><tr><td>FLAMMABILITY</td><td style="text-align: center;">1</td></tr><tr><td>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
HEALTH	1								
FLAMMABILITY	1								
REACTIVITY	1								
PERSONAL PROTECTION	B								

### 16. Other Information

#### Revision/Preparer Information

MSDS Preparer: JHW

#### Reference Documentation

#### Disclaimer

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