



**Aquatic Algaecide**

PULL

**Ad**

# Algae

# DEFENSE®

### ALGAE IDENTIFICATION



Chara



Filamentous



Planktonic

*For use in fresh water lakes, potable water reservoirs, ponds (including golf course ponds), fish hatcheries, irrigation ditches and other such slow moving or quiescent bodies of water.*

### ACTIVE INGREDIENT

\*Copper as elemental ..... 8%

OTHER INGREDIENTS ..... 92%

TOTAL ..... 100.00%

\*Derived from Copper-Triethanolamine Complex and Copper Hydroxide.

One Gallon Contains 0.8 Pounds of Elemental Copper.

**EPA REG. No. 83742-1**

**EPA EST. No. 37429-GA-2**

## KEEP OUT OF REACH OF CHILDREN CAUTION

**See Additional Precautionary Statements and Directions For Use Inside Booklet.**

Water treated with Algae Defense® may be used immediately for recreational activities, drinking, watering livestock, crop irrigation, golf courses, ornamental plantings and turf areas.



Net Contents:  
1 Gallon • 3.78 L

## GENERAL INFORMATION

Algae Defense® successfully controls diverse algal types including branched, filamentous, and planktonic species. To obtain optimal control, apply Algae Defense® in accordance with label directions at the first appearance of algae bloom. Water treated with Algae Defense® may be used immediately to irrigate crops, golf courses, ornamental plants, and turf areas. Surface applications of Algae Defense® may be made using a land-based sprayer, or spray boat.

Decomposition of dead plant material can result in dissolved oxygen depletion and subsequent fish kill. High water temperatures and dense weed infestation are exacerbating factors. To avoid excessive oxygen depletion and fish kill, treat no more than ½ of the water body at one time. Do not apply more Algae Defense® than required for the treatment area, and allow 10 to 14 days before making application to the remaining portion of the water body. Avoid trapping fish between the shoreline and treatment areas by treating from the shore outward toward deeper, untreated water.

Algae in the water column, or on the weed surfaces, can reduce the effectiveness of aquatic herbicides against *Hydrilla verticillata* and other vascular weeds. Unless specifically prohibited by the mix partner label, Algae Defense® may be tank mixed with products containing the active ingredients, copper, fluridone, diquat and endothal to improve aquatic weed control. If a product is tank mixed with Algae Defense®, the more stringent requirements of the Algae Defense® and mix partner labels must be met.

NOTE: Algae Defense® and solutions of Algae Defense® with cupric ion concentrations in excess of 1.0 ppm, may cause non-target plant injury. Do not allow sprays to drift over crops, ornamentals, grass or other desirable plants. **Observe all label restrictions.**

## ALGAE IDENTIFICATION

**CHARA** looks more like a rooted aquatic plant, but in fact it is classified as a type of algae. Chara is best identified by its gritty feel due to calcium deposits on its surface and distinct musky odor. Grows in thick patches around the edges of your pond. In severely infested areas, more than one application may be necessary.

**FILAMENTOUS** algae also known as "pond scum" or "moss" develops in yellowish or green mats on the water's surface. This form of algae may have a slimy, cottony or even coarse feel. Normally starting from the pond's edge or bottom.

**PLANKTONIC** algae are microscopic plants. Generally suspended in the first couple feet of water. When planktonic algae blooms it causes a pea soup or brownish appearance.

## FIRST AID

**IF INHALED:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

**IF IN EYES:** Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.

**IF SWALLOWED:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. **For medical emergencies involving this product, call toll free 1-888-875-1724.**

## PRECAUTIONARY STATEMENTS: HAZARDS TO HUMANS & DOMESTIC ANIMALS

### CAUTION

Harmful if inhaled. Causes eye irritation. Harmful if swallowed or absorbed through the skin. Avoid breathing vapor or spray mist. Avoid contact with skin, eyes or clothing. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing before reuse.

**ENVIRONMENTAL HAZARDS:** This product may be toxic to fish. Some species of fish may be killed at application rates on this label-trout and channel catfish are especially sensitive. Immature fish are more susceptible to injury than mature. Generally, fish toxicity is reduced as water hardness increases. Consult State Fish and Game Agency or other responsible agency before applying this product to public waters.

**STORAGE AND DISPOSAL:** Do not contaminate water, food or feed by storage and disposal.

**PESTICIDE STORAGE:** Store in a cool, dry place.

**PESTICIDE DISPOSAL:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest Environmental Protection Agency (EPA) Regional Office for guidance.

**CONTAINER DISPOSAL:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

## DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

For effective control, proper concentration should be maintained for a minimum of three hours contact time. The application chart is based on static or minimal flow rate situations. Where significant dilution or loss of water from unregulated inflows or outflows occur (raceways) within a three hour period, chemical may have to be metered in.

**1st:** Identify the algae growth present as one of the following types: Planktonic (suspended), Filamentous (mat forming), or Chara/Nitella.

**2nd:** Determine the surface acreage and average depth of treatment area. (1 acre = 43,560 sq. ft.) Length x Width / 43,560 = Surface Acres

Refer to the chart below to determine gallons of Algae Defense® to apply per surface acre. Control of free floating genera is obtained at rates equivalent to 0.2 to 0.5 ppm metallic copper. Control of mat forming genera requires a rate of 0.5 to 1.0 ppm metallic copper to be applied at the first signs of algae growth. The lower ends of the recommended ranges can be used in soft water and low growth situations. Higher rates within the recommended ranges should be used in situations of hard water or high algae growth.

Algae Defense® can be applied directly, but a 10 to 20 fold dilution of Algae Defense® with water facilitates uniform application.

**PERMITS:** Always consult your State Fish and Game Agency or other responsible agency before applying this product to public waters.

**WEATHER CONDITIONS:** Best results are obtained when Algae Defense® is applied at the first appearance of algae and when water temperatures are above 60° F. Apply under calm conditions in a manner that uniformly distributes Algae Defense® throughout the treated area.

**STRATIFIED LAKES:** (Summer Application) Lakes known to be stratified require treatment of the upper 6 feet of water only. Algae Defense®

**NON-STRATIFIED LAKES:** (Spring/Fall Application) Non-stratified lakes require treatments based on the total water depth. To avoid adverse effects on fish population, treat no more than ½ of the water body at a time.

**APPLICATION RATE  
GALLONS PER SURFACE ACRE**

Algae Type	ppm copper	Depth In Feet			
		1	2	3	4
Planktonic	0.2–0.5	0.7–1.7	1.4–3.4	2.0–5.1	2.7–6.8
Filamentous	0.5–1.0	1.7–3.4	3.4–6.8	5.1–10.2	6.8–13.6
Chara/Nitella	0.5–1.0	1.7–3.4	3.4–6.8	5.1–10.2	6.8–13.6

## METHODS OF APPLICATION

**SURFACE APPLICATION:** Surface applications are appropriate for shallow depths of 4 feet or less. Use a diluted spray mixture and apply evenly across the surface of the water from a boat or from the shore.

**SUBSURFACE APPLICATION:** Subsurface applications of Algae Defense® are recommended for water depths exceeding 4 feet. Weighted trailing hoses should be set to deliver the recommended rate of Algae Defense® to zones containing dense algae populations. Subsurface applications can be used for direct or invert applications of Algae Defense®. Avoid dragging hoses on the bottom.

The severity of algae infestation will dictate the distance that Algae Defense® will extend from the application point. Any subsequent applications should be made at points 3 hours downstream from the prior point of application. This step can be repeated as necessary until the entire infested area has been treated. Season-long control may require periodic re-treatment.

**FISH NOTE:** Algae Defense® may be toxic to trout and other species of fish. The risk of fish toxicity generally decreases as the hardness of water increases.

**IRRIGATION WITH TREATED WATER:** Water treated with Algae Defense® in accordance with label directions may be used for irrigation immediately after treatment.

## WARRANTY STATEMENT

Airmax® Ecosystems, Inc. warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for purposes stated on such label only when used in accordance with directions under normal use conditions. It is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials or the manner of use or application, all of which are beyond the control of Airmax® Ecosystems, Inc. In no case shall Airmax® Ecosystems, Inc. be liable for consequential, special or indirect damages resulting from the use or handling of this product. All such risks shall be assumed by the buyer. The exclusive remedy of any buyer or user of this product for any and all losses, injuries, or damages resulting from or in any way arising from the use, handling, or application of this product, whether in contract, warranty, tort, negligence, strict liability, or otherwise, shall not exceed the purchase price paid for this product or at Airmax® Ecosystems, Inc.'s election, the replacement of this product.

**Airmax® Ecosystems, Inc. MAKES NO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.**

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