













Aquatic Herbicide

PULL

Pw

PondWeed

DEFENSE[®]

| COMMON PONDWEEDS | | | | |
|--|--|--|---|--|
| Elolea  | Coontail  | Hydrilla  | Naiads  | Eurasian Watermilfoil  |
| Sago Pondweed  | American Pondweed  | Water Lettuce  | Water Hyacinth  | Duckweed  |

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

ACTIVE INGREDIENT

*Copper Sulfate Pentahydrate 31.27%

OTHER INGREDIENTS 68.73%

TOTAL 100.00%

*8.0% Elemental Copper.

One Gallon Contains 0.8 Pounds of Elemental Copper.

EPA REG. No. 83742-2

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 PondWeed Defense[®] may be used immediately after treatment for recreational activities.



Net Contents:
1 Gallon • 3.78 L

GENERAL INFORMATION

Unless specifically prohibited by the mix partner label, PondWeed Defense® may be tank mixed with fluridone, diquat and endothal, as part of a broader spectrum weed control program (specific instructions for tank mixes are given in the directions for use). If a product is tank mixed with PondWeed Defense®, the most stringent requirements of the PondWeed Defense® and mix partner labels must be met.

Because PondWeed Defense® works through absorption into the plant, it must be applied in a way that maximizes contact with the target aquatic weeds. Apply PondWeed Defense® during periods of active weed growth to the leaf surfaces in areas of dense weed foliage. Algae and silt in the water column, or on the weed surfaces, will reduce the herbicidal effect of PondWeed Defense® by competitively removing the product from the water column. Interference with PondWeed Defense®'s activity due to the presence of algae can be mitigated by tank mixing PondWeed Defense®, with a copper based algacide, such as Algae Defense®, or pre-treating the area with Algae Defense®.

Surface applications of PondWeed Defense® may be made using a land based sprayer or spray boat. Weighted trailing hoses are recommended for subsurface applications. In order to assure uniform coverage of the treated area, the applicator may use PondWeed Defense® as an undiluted product or may make an initial dilution prior to application.

Because it must be adsorbed into the plant to be effective, applications of PondWeed Defense® should be made when contact times of at least 12 to 24 hours can be obtained. Effective treatment is indicated by the submergence of target vegetation 3 to 7 days after treatment. If necessary, repeat applications of PondWeed Defense® may be made. Applicator should wait 10–14 days before re-treatment. The full effect of the treatment will require up to six weeks after the initial effect is observed.

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 1/2 of the water body at one time. Do not apply more PondWeed 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.

COMMON PONDWEEDS



Elodea



Coontail



Hydrilla



Naiads



Eurasian
Watermilfoil



Sago
Pondweed



American
Pondweed



Water
Lettuce



Water
Hyacinth



Duckweed

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. Trout and other species of fish may be killed at application rates recommended on this label. Generally, fish toxicity is reduced as water hardness increases. Consult State Fish and Game Agency before applying this product to public waters. Do not allow spray to drift.

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.

WEEDS CONTROLLED: Brazilian Elodea (*Egeria densa*), Common Elodea (*Elodea canadensis*), Coontail (*Ceratophyllum demersum*), Hydrilla (*Hydrilla verticillata*), Southern/Northern Naiads (*Najas* sp.), Water Lettuce (*Pistia stratiotes*), and Water Hyacinth (*Eichhornia crassipes*).

ADDITIONAL WEEDS CONTROLLED IN SOFT WATERS: Eurasian Watermilfoil (*Myriophyllum spicatum*), Sago Pondweed (*Potamogeton pectinatus*), and American Pondweed (*Potamogeton nodosus*).

WATER USE RESTRICTIONS: The residue of copper in potable water reservoirs must not exceed 1 ppm.

APPLICATION RATES FOR AQUATIC WEED CONTROL OR SUPPRESSION

IN QUIESCENT OR SLOW MOVING WATER:** Hydrilla (*Hydrilla verticillata*) is controlled at application rates equivalent to 0.75–1.0 ppm Cu**.

Weeds suppressed at application rates ranging from 0.50 to 1.0 ppm Cu**:

Brazilian Elodea (*Egeria densa*), Southern/Northern Naiads (*Najas* sp.), Coontail (*Ceratophyllum demersum*), and Common Elodea (*Elodea canadensis*).

Weeds suppressed at application rates ranging from 0.75 to 1.0 ppm Cu**:

Water Hyacinth (*Eichhornia crassipes*), Eurasian Watermilfoil** (*Myriophyllum spicatum*), Water Lettuce (*Pistia stratiotes*), American Pondweed** (*Potamogeton nodosus*), and Sago Pondweed** (*Potamogeton pectinatus*).

* Light weed infestation allows use of lower rate. High weed density requires higher rate.

** Control can be obtained in low hardness waters.

APPLICATION RATE CALCULATION: For large treatment areas, it's most convenient to determine surface area in acres and the average depth in feet.

The average depth is defined as the cumulative total of a series of depth measurements divided by the number of measurements made. The accuracy of the average will increase with increasing measurements.

The area of a rectangular treatment area is its length in feet times its width in feet, and the area of a circular treatment is the square of its radius (in feet) that is then multiplied by 3.14. The result of either calculation is area in square feet. This result is divided by 43,560 to give the area in acres.

The amount of material to be applied to this multi-acre site is calculated by using the following formula and the desired copper concentration: Target [Cu++] (ppm) x Avg. Depth (feet) X Surface Area (acres) X 3.34 = Gallons of PondWeed Defense®

Table 1 provides the results of this calculation on a per acre basis for 1 to 4 foot average water depths in 1 foot increments for target copper concentrations of 0.5, 0.75 and 1.0 ppm.

TABLE 1: Application Rate Data for Large Treatment Areas. Product is not intended for treating water depths which exceed 4 feet. For smaller treatment areas it is more convenient to calculate the amount of PondWeed Defense® necessary in terms of ounces per 1,000 square ft. The raw surface area in square feet is divided by 1000 to give the number of thousand square foot increments and this value is entered into the following calculation. Target [Cu++] (ppm) x Avg. Depth (feet) X Surface Area (1000 sq. ft.) X 10 = Ounces of PondWeed Defense®

| Average Water Depth of Treatment Site | Gallons of PondWeed Defense® per Surface Acre to Achieve the Desired Copper Concentration | | |
|---------------------------------------|---|-----------------------------------|--------------------------------|
| | Low Density Growth 0.5 ppm | Medium Density Growth 0.75 ppm | High Density Growth 1.0 ppm |
| TABLE 1 | | | |
| 1 foot | 1.7 | 2.5 | 3.3 |
| 2 feet | 3.3 | 5.0 | 6.7 |
| 3 feet | 5.0 | 7.5 | 10.0 |
| 4 feet | 6.7 | 10.0 | 13.4 |

Table 2 provides the results of this calculation on a per 1000 square feet basis for 1 to 4 foot average water depths in 1 foot increments for target copper concentrations of 0.5, 0.75 and 1.0 ppm.

TABLE 2: Application Rate Data for Smaller Treatment Areas. Product is not intended for treating water depths which exceed 4 feet.

| Average Water Depth of Treatment Site | Fluid Ounces of PondWeed Defense® per 1,000 sq. ft. to Achieve the Desired Copper Concentration | | |
|---------------------------------------|---|-----------------------------------|--------------------------------|
| | Low Density Growth 0.5 ppm | Medium Density Growth 0.75 ppm | High Density Growth 1.0 ppm |
| TABLE 2 | | | |
| 1 foot | 5.0 | 7.5 | 10.0 |
| 2 feet | 10.0 | 15.0 | 20.0 |
| 3 feet | 15.0 | 22.5 | 30.0 |
| 4 feet | 20.0 | 30.0 | 40.0 |

METHODS OF APPLICATION

SURFACE APPLICATIONS / SPRAY BOAT: Surface applications are appropriate for shallow depths of 4 feet or less. Product is not intended for use with inverts.

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

WARRANTY STATEMENT

As the manufacturer, 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. To the fullest extent permitted by law, the manufacturer shall not be liable for consequential, special or indirect damages resulting from the use or handling 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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