



PondMaster®

AQUATIC HERBICIDE

FOR USE IN STILL OR FLOWING WATER SITES INCLUDING: PONDS, FRESH WATER LAKES, RESERVOIRS, FISH HATCHERIES; ORNAMENTAL, FISH, FIRE, AND GOLF COURSE PONDS; INDUSTRIAL WATERS TO INCLUDE CROP AND NON-CROP IRRIGATION AND POTABLE WATER RESERVOIRS.

ACTIVE INGREDIENT:
Copper ethylenediamine complex† (CAS# 13426-91-0) 22.9%

OTHER INGREDIENTS: 77.1%

TOTAL 100.0%

†Metallic copper equivalent = 8%

KEEP OUT OF THE REACH OF CHILDREN WARNING / AVISO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

May be fatal if swallowed. May be fatal if inhaled. Do not breathe vapor or spray mist. Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

For applications in waters destined for use as drinking water, those waters must receive additional and separate potable water treatment. Do not apply more than 1.0 ppm as metallic copper in any waters.

FIRST AID	
If swallowed:	<ul style="list-style-type: none"> • 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.
If inhaled:	<ul style="list-style-type: none"> • 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 on skin or clothing:	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15 - 20 minutes. • Call a poison control center or doctor for treatment advice.

(First Aid continued on next column)

FIRST AID (cont.)	
If in eyes:	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15 - 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.
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. In case of emergency endangering health or the environment involving this product, call 1-877-800-5556.</p>	

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are barrier laminate, butyl rubber ≥14 mils, or nitrile rubber ≥14 mils. If you want more options, follow the instructions for category A on an EPA chemical-resistant category selection chart.

Mixers, loaders, applicators, and other handlers must wear the following:

- Long-sleeve shirt and long pants;
- Shoes plus socks; and
- Chemical-resistant gloves (such as nitrile or butyl rubber).

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent material that have been drenched or heavily contaminated with the product's concentrate. Do not reuse them.

USER SAFETY RECOMMENDATIONS

Users should:

- Wash the outside of gloves before removing.
- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic invertebrates. Waters treated with this product may be hazardous to aquatic organisms. Treatment of aquatic weeds and algae can result in oxygen loss from decomposition of dead algae and weeds. This oxygen loss can cause fish and invertebrate suffocation. To minimize this hazard, do not treat more than 1/2 of the water body to avoid depletion of oxygen due to decaying vegetation. Wait at least 10 to 14 days between treatments. Begin treatment along the shore and proceed outwards in bands to allow fish to move into untreated areas. Consult with the State or local agency with primary responsibility for regulating pesticides before applying to public waters, to determine if a permit is required.

Certain water conditions including low pH (<6.5), low dissolved organic carbon (DOC) levels (3.0 mg/L or lower), and "soft" waters (i.e. alkalinity less than 50 mg/L), increase the potential acute toxicity to non-target aquatic organisms. Do not use in waters containing trout or other fish species that are highly sensitive to copper if the alkalinity is less than 50 ppm. Fish toxicity generally decreases when the hardness of water increases. Pondmaster® Aquatic Herbicide must not be used in ornamental ponds containing Koi.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Read all directions for use carefully before applying this product. Use only according to label directions.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift; only protected handlers may be in close proximity to the mixing area or application equipment while in use. For any requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation.

1. Product Information

Pondmaster Aquatic Herbicide controls many submersed and floating aquatic plant species including hydrilla (*Hydrilla verticillata*), Brazilian elodea (*Egeria densa*), naiad (*Najas* spp.), coontail (*Ceratophyllum demersum*), elodea (*Elodea canadensis*), water lettuce (*Pistia stratiotes*), water fern (*Salvinia* and *Azolla* spp.), duckweed (*Lemna* and *Landoltia* spp.), water hyacinth (*Eichhornia crassipes*) and other submersed and floating aquatic weed species that are sensitive to copper. Under certain water quality conditions, such as low water

hardness, this product may also control Eurasian watermilfoil (*Myriophyllum spicatum*), sago pondweed (*Potamogeton pectinatus*) and American pondweed (*Potamogeton nodosus*).

PondMaster Aquatic Herbicide can also be effective in controlling various filamentous and macro algae, such as *Cladophora*, *Pithophora*, *Hydrodictyon*, *Chara*, and *Nitella*, in the same use sites.

Apply when weeds are actively growing. The most copper sensitive weed species require a minimum of 3 to 24 hours of contact with Pondmaster Aquatic Herbicide in order to provide effective control. Less susceptible species may require longer contact time or higher doses. Significant water movement may result in dilution of the treated water and reapplication may be necessary. Susceptible aquatic weeds will generally drop below the surface of the water within 3 to 14 days after treatment. If this effect is not observed, the product may be re-applied after a minimum of 10 to 14 days after the initial application. Once weeds drop below the surface, it can take up to 6 weeks to realize the full effect of the treatment.

PondMaster Aquatic Herbicide may be applied by sprayer or spray boat as a surface spray, as a subsurface application through weighted hoses, or through injection equipment. This product may be applied in combination with other aquatic herbicides and algaecides, or mixed with adjuvants, a polymer (except CA), or surfactants as appropriate. As a surface application, this product may be applied diluted or undiluted, whichever is most suitable to ensure uniform coverage of the treated area. Apply the product to the area where the greatest concentration of target plants or algae are located, and in a manner that will deliver the herbicide to the target organism.

Dilution with water may be necessary at the lower application rates to ensure uniform coverage of the treated area. Dilute the required amount of Pondmaster Aquatic Herbicide with enough water to ensure even distribution with the type of equipment being used.

2. Use Restrictions

- Do not enter or allow others to enter treatment area until application is complete.
- Do not apply Pondmaster Aquatic Herbicide directly to, or otherwise permit it to come into contact with any desirable plants as injury may result.
- Do not apply in such a way that concentrated Pondmaster Aquatic Herbicide comes in contact with crops, ornamentals, grass or desirable plants.
- Wash spray equipment thoroughly before and after each application.

3. Spray Drift Management

A variety of factors including weather conditions (e.g., wind direction, wind speed, temperature, relative humidity) and method of application (e.g., ground, aerial, airblast, chemigation) can influence pesticide drift. The applicator must evaluate all factors and make appropriate adjustments when applying this product.

Droplet Size

Apply only as a medium or coarser spray (ASAE standard 572) or a volume mean diameter of 300 microns or greater for spinning atomizer nozzles.

Wind Speed

Do not apply at wind speeds greater than 15 mph. Only apply this product if the wind direction favors on-target deposition (approximately 3 to 10 mph), and there are no sensitive areas within 250 feet downwind.

Temperature Inversions

If applying at wind speeds less than 3 mph, the applicator must determine if a) conditions of temperature inversion exist, or b) stable atmospheric conditions exist at or below nozzle height. Do not make applications into areas of temperature inversions or stable atmospheric conditions.

Other State and Local Requirements

Applicators must follow all state and local pesticide drift requirements regarding application of copper compounds. Where states have more stringent regulations, they must be observed.

Equipment

All ground application equipment must be properly maintained and calibrated using appropriate carriers or surrogates.

Additional requirements for ground boom application:

Do not apply with a nozzle height greater than 4 feet above the water.

4. Application Information

In lakes, reservoirs, and ponds, the application site is defined by this label as the specific location where Pondmaster Aquatic Herbicide is applied. Use the lower listed rate in soft water (less than 50 ppm alkalinity), for light infestations and less mature plants; use the higher concentration in hard water (above 50 ppm alkalinity), for dense infestations and when targeting more mature vegetation.

For aquatic weed control (including vascular plants and algae), do not exceed 1.0 ppm metallic copper during any single application; wait a minimum of 14 days between treatments, except for algae control in aquaculture ponds when fish are present. In that case, do not exceed a concentration of 0.4 ppm during any single application and wait a minimum of 10 days between treatments.

When treating slow-moving water, apply the spray solution counter to the flow of water.

Table 1: Application Concentrations For Submersed Aquatic Weed Control

Weed Species	Metallic Copper Level Required For Control (ppm)
American pondweed (<i>Potamogeton nodosus</i>)*	0.75 to 1.0
Brazilian elodea (<i>Egeria densa</i>)	0.50 to 1.0
Coontail (<i>Ceratophyllum demersum</i>)	0.50 to 1.0
Elodea (<i>Elodea canadensis</i>)	0.50 to 1.0
Eurasian watermilfoil (<i>Myriophyllum spicatum</i>)*	0.75 to 1.0
Hydrilla (<i>Hydrilla verticillata</i>)	0.75 to 1.0
Naiad (<i>Najas</i> spp.)	0.50 to 1.0
Pondweed spp. (<i>Potamogeton</i> spp.)	0.75 to 1.0
Sago pondweed (<i>Potamogeton pectinatus</i>)*	0.50 to 1.0
Other susceptible submersed species	0.75 to 1.0

*Control generally only in low water hardness.

Pondmaster Aquatic Herbicide can also be effective on many species of algae at concentrations ranging from 0.2 to 1.0 ppm metallic copper. Follow the use directions described for aquatic weeds.

Table 2: Foliar Application Rates For Floating Aquatic Weed Control*

Weed Species	ppm, metallic copper
Duckweed (<i>Lemna</i> , <i>Landoltia</i> , and <i>Spirodela</i> spp.)	0.75 to 1.0
Water fern (<i>Salvinia</i> and <i>Azolla</i> spp.)	0.75 to 1.0
Water hyacinth (<i>Eichhornia crassipes</i>)	0.75 to 1.0
Water lettuce (<i>Pistia stratiotes</i>)	0.5 to 0.75

*The addition of a surfactant is recommended to improve efficacy on floating plants. Follow surfactant product labeling instructions for application rates and use directions. **Add Pondmaster Aquatic Herbicide and appropriate surfactant to a recommended minimum of 50 gallons of spray solution per surface acre. Use an adequate spray volume to ensure good coverage of the plant.** Do not exceed 3.34 gallons of this product per acre foot.

Application Rate Calculation

For large bodies of water, determine the size (in acres) and the average depth (in feet) of the area to be treated. Application rates are calculated by using the following formula to obtain the appropriate copper concentration:

$$\frac{\text{Desired concentration of copper (ppm) x Average depth of water (feet) x 3.34 = Gallons of PondMaster Aquatic Herbicide per surface acre}}{\text{Desired concentration of copper (ppm) x Average depth of water (feet) x 3.34 = Gallons of PondMaster Aquatic Herbicide per surface acre}}$$

To calculate the area and average depth of a lake or pond, use the following formulas and conversion factors. All measurements (length, width, radius, depth) should be in feet.

Formulas

- Area of a square or rectangle (ft²) = length x width
- Area of a circle (ft²) = radius x radius x 3.14
- Average depth (ft) = sum of all depth measurements ÷ number of measurements
(The more measurements taken, the more accurate the average depth will be.)

Conversion Factors

- 1 gallon = 4 quarts or 8 pints or 16 cups or 128 fluid ounces
- 1 quart = 2 pints or 4 cups or 32 fluid ounces
- 1 acre = 43,560 square feet
- 1 acre-foot = 43,560 cubic feet = 325,762 gallons = 2,720,000 pounds

For smaller bodies of water, determine the size (in square feet) and the average depth (in feet) of the area to be treated.

Average Water Depth of Treatment Site (feet)	Fluid Ounces ¹ of Pondmaster Aquatic Herbicide per 1,000 sq. ft. to Achieve the Desired Copper Concentration ²		
	0.5 ppm	0.75 ppm	1.0 ppm
1	5.0	7.3	9.7
2	9.8	14.7	19.3
3	14.7	22.1	29.0
4	19.6	29.4	39.0
5	24.5	36.8	49.0
6	29.4	44.2	58.7
7	34.4	51.5	68.4
8	39.3	58.9	78.4
9	44.2	66.2	88.1
10	49.1	73.6	98.1

¹When treating low volumes and measurements in tablespoons is desired, multiply the volume in fluid ounces by 2 to get the volume in tablespoons (one fluid ounce contains two tablespoons).

²For surface applications, dilute Pondmaster Aquatic Herbicide with water in a minimum ratio of 4:1 (Pondmaster Aquatic Herbicide:water).

5. Methods Of Application

Surface Application: Spray Pondmaster Aquatic Herbicide from shore or boat across the surface of the targeted area. Surface applications generally are recommended near shorelines and in shallower waters, and may be made from shore into shallow water.

Adjuvants/Surfactants: Adjuvants or surfactants may be added to Pondmaster Aquatic Herbicide or to a Pondmaster Aquatic Herbicide/water premix to improve efficacy. **Silicone surfactants are not recommended for use on floating plants as they generally can cause the plant to sink causing the spray solution to be washed off the plant.** Adjuvants/surfactants may also enhance performance on other species. Consult the manufacturer's recommendations regarding the use of these products for improved control.

Tank Mix: PondMaster Aquatic Herbicide may be tank mixed with other herbicides for control of a broader weed spectrum. Do not mix concentrates in tank without first adding water. To ensure compatibility, a jar test is recommended before field application. This product must not be mixed with any product containing a label prohibition against such mixing and must be used in accordance with the more restrictive of the label limitations and precautions. Do not exceed any label dosage rates.

PondMaster Aquatic Herbicide + Sonar® A.S. Tank Mix

This product can be mixed with Sonar A.S. to broaden the submerged weed control spectrum of either product alone and be applied as a uniform surface spray or injected under the water's surface. For best results, apply this tank mix at a minimum of 0.5 ppm PondMaster Aquatic Herbicide and a low to moderate rate of Sonar A.S. Lower concentrations may be effective on more susceptible species and under certain conditions.

PondMaster Aquatic Herbicide + Diquat Tank Mix

This product can be mixed with diquat (diquat dibromide) for enhanced control of certain weed species including bladderwort, curlyleaf pondweed, leafy pondweed, Richardson's pondweed, small pondweed, cattail, elodea, duckweed, water lettuce, Eurasian watermilfoil, floating-leaf pondweed, coontail, salvinia, naiad, sago pondweed, pennywort, Chara, hydrilla and water hyacinth. For best results, apply Pondmaster Aquatic Herbicide/diquat (e.g. Littora®, Reward®) combinations in a 2:1 ratio of PondMaster Aquatic Herbicide:Diquat. Do not exceed maximum labeled rates for any product. For hydrilla control and control of other species with high sensitivity to copper, lower rates of PondMaster Aquatic Herbicide may also enhance the activity of diquat. PondMaster Aquatic Herbicide must be applied at a minimum of 0.1 ppm in combination with diquat. Higher rates may be needed in areas with dense weeds.

PondMaster Aquatic Herbicide + Endothal Tank Mix

This product can be mixed with endothal and applied as a uniform surface spray or injected under the water's surface for control of species including naiad, curlyleaf pondweed, elodea, coontail, watermilfoil, water stargrass, eelgrass, *Cladophora*, *Pithophora*, *Spirogyra*, *Chara*, American pondweed and sago pondweed. For best results, apply PondMaster Aquatic Herbicide/endothall combinations at a recommended ratio of 4:3 v/v PondMaster Aquatic Herbicide to endothall formulated product (e.g., Aquathol® K/ Hydrothol® 191).

Irrigation Ponds or Reservoirs: When applying to irrigation ponds or reservoirs, it is best to hold water for a minimum of 3 hours before irrigating to ensure proper exposure of PondMaster Aquatic Herbicide at targeted rates to plants. If water is to be continually pumped from the treated system during application, application techniques (drip, injection, or multiple spray applications) should be made to compensate for dilution of PondMaster Aquatic Herbicide within the targeted area.

STORAGE AND DISPOSAL	
Do not contaminate water, food, or feed by storage and disposal.	
PESTICIDE STORAGE: Store in a cool dry place. Do not store near feed or foodstuffs. In case of leak or spill, use absorbent materials to contain liquids and dispose in a manner consistent with the pesticide disposal instructions.	
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 EPA Regional Office for guidance. Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.	
NONREFILLABLE CONTAINER HANDLING: Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank, treatment area, or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat the procedure two more times. Then offer for recycling (if available) 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.	

WARRANTY DISCLAIMER

PBI/Gordon Corporation warrants that this product conforms to the chemical description on the product label. Testing and research have also determined that this product is reasonably fit for the uses described on the product label. To the extent consistent with applicable law, PBI/Gordon Corporation makes no other express or implied warranty of fitness or merchantability nor any other express or implied warranty and any such warranties are expressly disclaimed.

MISUSE

Federal law prohibits the use of this product in a manner inconsistent with its label directions. To the extent consistent with applicable law, the buyer assumes responsibility for any adverse consequences if this product is not used according to its label directions. In no case shall PBI/Gordon Corporation be liable for any losses or damages resulting from the use, handling or application of this product in a manner inconsistent with its label.

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