

POND-KLEAR™

Aquatic Herbicide

For the Management of Undesirable Aquatic Vegetation in Slow Moving Waters. Controls nuisance watermeal and duckweed.

ACTIVE INGREDIENT:

Flumioxazin* 44.0%

OTHER INGREDIENTS: 56.0%

TOTAL 100.0%

*2-[7-fluoro-3,4-dihydro-3-oxo-4-(2-propynyl)-2H-1,4-benzoxazin-6-yl]-4,5,6,7-tetrahydro-1H-isoindole-1,3(2H)-dione

Contains 4 pounds flumioxazin per gallon.

Shake Well Before Use

KEEP OUT OF REACH OF CHILDREN CAUTION

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.)

Read all Precautionary and First Aid Statements on back panel before use.

Sold by:

Applied Biochemists
1200 Bluegrass Lakes Pkwy
Alpharetta, GA 30004

For product questions, call 1-800-558-5106

EPA Reg. No. 8959-61

EPA Est. No. 42291-GA-1

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GROUP	14	HERBICIDE
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PRODUCT INFORMATION

This product is a fast acting contact herbicide for use in: Quiescent or slow-moving bodies of water, Still waters, Canals, Drainage ditches, Lakes, Reservoirs, Marshes, Farm, Fire, Fish, Golf Course, Industrial, Irrigation, Stormwater retention, and Wastewater Ponds. This product controls selected submersed, emergent, and floating aquatic weeds. It is most effective when applied to young, actively growing weeds in water with a pH of less than 8.5. Waters treated with this product may be used for swimming, fishing, animal consumption or further potable water treatment.

DIRECTIONS FOR USE

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

Read the entire label before using this product. Use strictly in accordance with label precautionary statements and directions, and with applicable state and federal regulations.

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 the area during application. For any requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation.

GENERAL APPLICATION RESTRICTIONS:

- Do not apply to intertidal or estuarine areas.
- There is no post-application holding restriction against use of treated water for drinking or recreational purposes (e.g. swimming, fishing).
- In areas with dense weed vegetation only treat 1/2 the water body at one time and wait 10-14 days before treating the remaining area. Do not retreat the same section of water within 28 days of initial application.
- Treated water may not be used for irrigation purposes on food crops until at least five (5) days after application.
- Treated water may be used for irrigation purposes on turf and landscape ornamentals as outlined in the *Irrigation Restrictions Following Application* table.
- Do not use in water utilized for crawfish farming.
- Do not re-treat the same section of water with this product more than 6 times per year.
- Do not exceed 400 ppb of this product during any one application.

Table 1. Irrigation Restrictions Following Application				
Application Method	Application Rate	Average Water Depth	Turf and Landscape Ornamentals	Ornamentals grown for production in Greenhouse and Nursery
Surface Spray	1.5 to 3.0 fl. oz. per 10,890 sq. ft.(1/4 acre)	> 3 feet	None	5 days
		< 3 feet	12 hours	5 days
Subsurface	< 200 ppb	N/A	1 day	5 days
	200 to 300 ppb	N/A	2 days	5 days
	300 to 400 ppb	N/A	3 days	5 days

Spray Drift Management

A variety of factors including weather conditions (e.g., wind direction, wind speed, temperature, relative humidity) and the method of application (e.g., spray tank, backpack sprayers, sprayer-equipped boats) 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 down wind.

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

Permits:

Some states may require permits for the application of this product to public waters. Check with your local authorities.

FLOATING AND EMERGED WEEDS

- Determine the dimensions of the intended treatment area using the appropriate formula below:

$$\text{Square pond: average length (ft.)} \times \text{average width (ft.)} / 10,800 = \frac{1}{4} \text{ acre}$$

$$\text{Oval pond: (average length (ft.)} \times \text{average width (ft.)} \times 0.8) / 10,800 = \frac{1}{4} \text{ acre}$$
- Dilute 1.5 - 3.0 fl. oz. of product in 4 gallons of water per $\frac{1}{4}$ acre.
- Apply as a broadcast spray directly to the foliage of actively growing weeds. This product will control the following species: Alligator Weed (*Alternanthera philoxeroides*), Duckweed (*Lemna spp.*), Frogs-bit (*Limnobium spongia*), Mosquito Fern (*Azolla spp.*), Salvinia (*Salvinia spp.*), Water Lettuce (*Pistia stratiotes*), Watermeal (*Wolffia spp.*), and algae (*Pithophora*) and (*Cladophora*).

Example: If using a 5 gallon sprayer, dilute 1.5 to 3.0 fl. oz. of product in 4 gallons of water (use water having a pH of 5 to 7). Apply solution evenly to the weeds in each 1/4 acre of pond surface area. Mix additional product and water as necessary to treat the whole pond. Ensure thorough coverage of target plant foliage.

HELPFUL HINTS:

- When making solution, use dilution water having a pH of 5 to 7.
- Apply in early morning to actively growing weeds and early in the season.
- This product is a contact herbicide that quickly degrades in the water column.
- Proper coverage is essential for effective control.** Apply in a manner that will ensure even distribution of the chemical within the treatment area.
- This product is rapidly absorbed by target plants, but also **breaks down quickly in water with a pH greater than 8.5.** The pH of water surrounding mats of submersed vegetation can exceed 8.5 by early to mid-day, due to photosynthetic processes. Application of this product under these conditions may provide only partial weed control, and regrowth is likely.

- If a second application is required to provide control, make treatment when weeds are first observed, but no sooner than 28 days after the last treatment.
- Clean spray equipment by flushing with clean water immediately after treatment.

TANK MIXES

This product may be tank mixed with 2,4-D, diquat, glyphosate, or copper algacides for enhanced control. **Mix and apply immediately.** Read and follow the entire label of each product to be used in the tank mix with this product. Always follow the most restrictive label restrictions and precautions for all products used when making an applications involving tank mixes. Contact Applied Biochemists for more information, 1-800-558-5106.

SUBMERSED AND FLOATING WEEDS

1. Determine the dimensions of the intended treatment area using the appropriate formula below:

Square pond: average length (ft.) x average width (ft.) x average depth (ft.) / 43,560 = acre-feet

Oval pond: (average length (ft.) x average width (ft.) x average depth (ft.) x 0.8) / 43,560 = acre-feet

2. Dilute 16 fl. oz. (200 ppb flumioxazin) to 32 fl. oz. (400 ppb flumioxazin) of product in 4 gallons of water per acre-foot.
3. Apply evenly as subsurface application. This product will control the following species: Coontail (*Ceratophyllum demersum*), Duckweed (*Lemna spp.*), Fanwort (*Cabomba caroliniana*), Hydrilla (*Hydrilla verticillata*), Hydrophila (*Hydrophila polysperma*), Naiad, Southern (*Najas guadalupensis*), Pondweed, Curlyleaf (*Potamogeton crispus*), Pondweed, Sago (*Potamogeton pectinatus*), Pondweed, Variable-Leaf (*Potamogeton diversifolius*), Salvinia (*Salvinia spp.*), Water Lettuce (*Pistia stratiotes*), Watermeal (*Wolffia spp.*) Watermilfoil, Eurasian (*Myriophyllum spicatum*), and Watermilfoil, Variable-Leaf (*Myriophyllum heterophyllum*).

Example: Using a 5 gallon sprayer, dilute 16 to 32 fl. oz. of product in 4 gallons of water (use water having a pH of 5 to 7). Apply solution evenly to the weeds in the water column by inserting the spray nozzle underneath the surface to achieve a target concentration of 200 ppb to 400 ppb. Mix additional product and water as necessary to treat the whole pond.

RESISTANCE MANAGEMENT

This product is a Group 14 herbicide. Any weed population may contain or develop plants naturally resistant to this product and other Group 14 herbicides. Weed species with acquired resistance to Group 14 herbicides may eventually dominate the weed population if Group 14 herbicides are used repeatedly in

the same field or in successive years as the primary method of control for targeted species. This may result in partial or total loss of control of those species by this product or other Group 14 herbicides.

To delay herbicide resistance consider:

- Avoiding the consecutive use of this product or other target site of action Group 14 herbicides that might have a similar target site of action, on the same weed species.
- Using tank mixtures or premixes with herbicides from different target site of action Groups as long as the involved products are all registered for the same use, have different sites of action and are both effective at the tank mix or prepack rate on the weed(s) of concern.
- Basing herbicide use on a comprehensive Integrated Pest Management (IPM) program.
- Monitoring treated weed populations for loss of field efficacy.
- Contacting your local extension specialist, certified crop advisors and/or manufacturer for herbicide resistance management and/or integrated weed management recommendations for specific crops and resistant weed biotypes.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if inhaled or absorbed through the skin. Causes moderate eye irritation. Avoid breathing spray mist. Avoid contact with skin, eyes or clothing.

FIRST AID

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 – 20 minutes.

IF IN EYES: 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.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

IN CASE OF EMERGENCY CALL: 1-800-654-6911

Personal Protective Equipment (PPE)

Mixers, loaders, applicators, and other handlers must wear long-sleeved shirt and long pants, shoes and socks and waterproof gloves.

Follow manufacturer's instructions for cleaning/maintaining PPE. If there are no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS

Users Should: 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. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS: This product can be toxic to non-target plants and aquatic invertebrates. Do not apply to water except as specified on the label. Drift and runoff may be hazardous to non-target plants and aquatic organisms in neighboring areas, if not used in accordance to label directions. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from treated areas. Do not contaminate water when disposing of equipment washwaters.

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 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.

This pesticide is toxic to plants and should be used strictly in accordance with the drift and run-off precautions on this label in order to minimize off-site exposures.

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

PHYSICAL OR CHEMICAL HAZARDS

Do not mix or allow coming in contact with oxidizing agent. Hazardous chemical reaction may occur.

STORAGE & DISPOSAL:

Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited.

PESTICIDE STORAGE: Keep container closed when not in use. Keep pesticide in original container. Do not put concentrate or dilute into food or drink containers. Do not reuse or refill container. Do not contaminate feed, feedstuffs, or drinking water. Do not store or transport near feed or food.

PESTICIDE DISPOSAL & CONTAINER HANDLING: Nonrefillable container. Do not reuse or refill this container. If empty: Place in trash or offer for recycling, if available. If partly filled: Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

CONTAINER DISPOSAL: Nonrefillable container. Do not reuse container. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning if available or puncture and dispose of in approved landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke. Consult Federal, State or local authorities for approved alternative procedures.

WARRANTY DISCLAIMER

Neither the manufacturer nor the seller makes any warranty, expressed or implied concerning the use of this product in a manner that is not consistent with the use expressly set forth on the label. To the extent permitted by, and consistent with, applicable law, buyer assumes any risk of use of this product that is not consistent with label use instructions. Read and follow the label directions.