**PROPELLER Aquatic Herbicide**

**SPECIMEN LABEL**

FOR THE MANAGEMENT OF UNDESIRABLE AQUATIC VEGETATION IN SLOW MOVING OR QUIESCENT WATERS

**ACTIVE INGREDIENT:**
- Flumioxazin

**OTHER INGREDIENTS:**
- (2-[1-(2-fluoro-3,4-dihydro-3-oxo-4-(2-propynyl)-2H,1H-benzoxazin-6-yl)-4,5,6,7-tetrahydro-1H-isooindole-1,3(2H)-dione)

**TOTAL:** 51.0%

PROPELLER Aquatic Herbicide is a water dispersible granule containing 51% active ingredient.

EPA Reg. No. 81927-68

**USER SAFETY REQUIREMENTS**

Follow manufacturer’s instructions for cleaning/maintaining PPE. If no such instructions exist, use detergent and hot water for washables. Other laundry for washables exist, use detergent and hot water.

**KEEP OUT OF REACH OF CHILDREN**

**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. Call a poison control center or doctor for further 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 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. Call a poison control center or doctor for treatment advice.

If swallowed: Call a poison control center or doctor immediately for treatment advice.

**HOT LINE NUMBER:** Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-424-9300 for emergency medical treatment information.

**PRECAUTIONARY STATEMENTS**

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if inhaled or absorbed through the skin. Causes moderate eye irritation. Avoid breathing dust and spray mist. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing before reuse.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Applicators and other handlers must wear:
- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes and socks

**CAUTION:**
- Take off contaminated clothing. If pesticide gets inside breathing dust and spray mist. Avoid contact with skin, eyes or clothing.
- Wash thoroughly with soap and water after handling 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**

If not in use in accordance with directions on the label, this product can be toxic to non-target plants and aquatic invertebrates. Do not apply to water except as specified on the label. Drain 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.

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

**DIRECTIONS FOR USE**

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

**READ ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH 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 agency responsible for pesticide regulation.

**TANK MIXES**

**NOTICE:** Tank mixing or use of this product with any other product which is not specifically and expressly authorized by the label shall be the exclusive risk of user, applicator and/or application advisor, to the extent allowed by applicable law. It is the pesticide user’s responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

**PRODUCT INFORMATION**

PROPELLER Aquatic Herbicide is a fast-acting herbicide that 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.

**AQUATIC USE RESTRICTIONS**

- Do not exceed 400 ppb of PROPELLER Aquatic Herbicide during any one application.
- Do not apply to intertidal or estuarine areas.
- Do not apply for use in shallow lakes or slow-moving waters.
- Do not re-treat the same area within 28 days of application.

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 ½ the water body at one time and wait 10-14 days before treating the remaining area. 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.

**IRRIGATION RESTRICTIONS FOLLOWING APPLICATION**

<table>
<thead>
<tr>
<th>Method</th>
<th>Application Rate</th>
<th>Average Water Depth</th>
<th>Turf and Landscape Ornamentals</th>
<th>Ornamentals grown for production in Greenhouse and Nursery</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surface Spray</td>
<td>6 to 12 oz per surface acre</td>
<td>Greater than 3 feet</td>
<td>None</td>
<td>5 days</td>
</tr>
<tr>
<td>Subsurface</td>
<td>Less than 200 ppb</td>
<td>N/A</td>
<td>1 day</td>
<td>5 days</td>
</tr>
<tr>
<td></td>
<td>300 to 400 ppb</td>
<td>N/A</td>
<td>2 days</td>
<td>5 days</td>
</tr>
<tr>
<td></td>
<td>300 to 400 ppb</td>
<td>N/A</td>
<td>3 days</td>
<td>5 days</td>
</tr>
</tbody>
</table>

**RESISTANCE MANAGEMENT**

For resistance management, PROPELLER Aquatic Herbicide is a Group 14 herbicide. Any weed population may contain or develop plants naturally resistant to PROPELLER Aquatic Herbicide and other Group 14 herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same use site. Follow appropriate resistance-management strategies.

To delay herbicide resistance take one or more of the following steps:
- Avoid the consecutive use of PROPELLER Aquatic Herbicide or other target site of action Group 14 herbicides that might have a similar target site of action, on the same weed species.
- Use tank mixes or premixes with herbicides from different target site of action Group 14 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.
- Base herbicide use on a comprehensive Integrated Pest Management (IPM) program.
- Scout fields prior to application to identify the weed species present and their growth state to determine if the intended application will be effective.
- Scout fields after application to verify that the treatment was effective and to monitor weed populations for early signs of resistance development.
- Contact 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.

**STATEMENT OF REGULATIONS.**

It is the pesticide user’s responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.
SPRAY DRIFT MANAGEMENT

SPRAY DRIFT REDUCTION
Avoid spraying drift at the application site is the responsibility of the applicator. The interaction of many equipment and weather-related factors determine the potential for spray drift. The applicator is responsible for considering all these factors when making decisions.

Do not spray PROPELLER Aquatic Herbicide under circumstances where spray droplets may drift to unprotected persons, pets, or vegetation. Follow the following steps to clean the spray equipment:

1. Complpletely drain the spray tank and rinse the application equipment thoroughly, including the inside and outside of the tank and all in-line screens.
2. Fill the tank with clean water and flush all hoses, booms, screens and nozzles.
3. Top off tank with clean water.
4. Circulate through sprayer for 5 minutes.
5. Then flush all hoses, booms, screens and nozzles for a minimum of 15 minutes.
6. Drain tank completely.
7. Remove all nozzles and screens and rinse them with clean water.

AERIAL APPLICATION
To obtain satisfactory weed control, aerial application of PROPELLER Aquatic Herbicide must provide uniform coverage of surface weeds and sufficient contact time. When applied by air, PROPELLER Aquatic Herbicide may not provide adequate control of some submerged weeds. Do not apply by air when significant drift on to non-target plants may occur or when wind velocity is more than 10 mph. Avoid spraying PROPELLER Aquatic Herbicide within 200 feet of dwellings, adjacent sensitive crops or environmentally sensitive areas. To obtain satisfactory application and avoid drift, the following direction must be observed:

- **Volume and Pressure**
  - Apply PROPELLER Aquatic Herbicide in a minimum of 10 gals of water per acre with a maximum spray pressure of 40 PSI. Application at less than 5 gals per acre may not provide adequate weed control. Higher gallonage applications provide more consistent weed control.
- **Nozzles and Nozzle Operation**
  - Use nozzles that produce flat or hollow cone spray patterns. Use non-drip type nozzles to avoid unwanted discharge of spray solution. The nozzle must be directed toward the rear of the aircraft, at an angle between 0° and 15° downward. Do not place nozzles on the outer 25% of the wings or rotor.
- **Adjuvants**
  - Refer to the additive section or the tank mix partners label for adjuvant directions.

DIRECTIONS FOR USE TO CONTROL FLOATING AND EMERGED WEEDS USING SURFACE APPLICATION
PROPELLER Aquatic Herbicide will control weeds and algae listed in Table 1, Floating and Emerged Weeds, when applied as a broadcast spray with appropriate equipment. For best results, apply PROPELLER Aquatic Herbicide to the foliage of actively growing weeds.

<table>
<thead>
<tr>
<th>Common Name</th>
<th>Scientific Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alligator Weed</td>
<td>Alternanthera philoxeroides</td>
</tr>
<tr>
<td>Duckweed</td>
<td>Lemna spp.</td>
</tr>
<tr>
<td>Frog’s-bit</td>
<td>Limnium spongia</td>
</tr>
<tr>
<td>Water Fern</td>
<td>Salvinia spp.</td>
</tr>
<tr>
<td>Water Lettuce</td>
<td>Pistia stratiotes</td>
</tr>
<tr>
<td>Watermeal</td>
<td>Wolffia spp.</td>
</tr>
<tr>
<td>Water Pennywort</td>
<td>Hydrocotyle spp.</td>
</tr>
<tr>
<td>Filamentous algae</td>
<td>Pithophora</td>
</tr>
<tr>
<td>Filamentous algae</td>
<td>Cladophora</td>
</tr>
</tbody>
</table>

Surface Application
Apply PROPELLER Aquatic Herbicide as a broadcast spray at 6 to 12 ounces of formulated product (0.19 to 0.38 lb ai) per acre plus an adjuvant approved for use in aquatics.

PROPELLER Aquatic Herbicide is a contact herbicide that quickly degrades in the water column so that plants that do not initially come in contact with the herbicide will not be controlled. Apply PROPELLER Aquatic Herbicide in a minimum of 30 gals of water per acre to all areas of the water body where weeds exist. Coverage is essential for effective control as all floating weeds need to be exposed to lethal concentrations in all parts of the water body. Any untreated escapes or re-introductions of plants that were not treated will reestablish in areas where surface weeds had previously been controlled. If a second application is required to provide control, apply once the return of these weeds is first observed, but no sooner than 28 days after the last treatment.

Application of PROPELLER Aquatic Herbicide during early morning hours may enhance weed control. When applying to densely packed actively growing surface weeds, ensure adequate coverage. Rapid decomposition of vegetation resulting from herbicide treatment can result in loss of oxygen in water. A sudden decrease in dissolved oxygen can result in fish suffocation. If aquatic vegetation is dense, treat floating surface weeds in sections to avoid a rapid decrease in dissolved oxygen.

PROPELLER Aquatic Herbicide may be tank mixed with 2,4-D, dicamba, glyphosate or other registered foliar applied herbicides for enhanced control of floating and emergent weeds. Consult a manufacturer’s label for specific rate restrictions and weeds controlled. It is the pesticide user’s responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture. Verify mixing compatibility by a jar test before using.

Jar Test to Determine Compatibility of Adjuvants and PROPELLER Aquatic Herbicide
Conduct a jar test before mixing commercial quantities of PROPELLER Aquatic Herbicide, when using for the first time, when using new adjuvants or when a new water source is being used.

1. Add 1 pt of water to a quart jar. Use water from the same source and the same temperature as the water used in the spray tank mixing operation. Gently mix until product disperses.
2. Add 3 grams (approximately 1 level tsp) of PROPELLER Aquatic Herbicide for the 8 oz/A rate or 4 grams (approximately 1-1/2 tsp) for 12 oz/A rate to the jar. Gently mix until product disperses.
3. Add 60 ml (4 Tbsp or 2 fl oz) of additive to the quart jar and gently mix.
4. Place cap on jar, invert 10 times, let stand for 15 minutes, evaluate.
5. An ideal tank mix combination will be uniform and free of suspended particles. If any of the following conditions are observed, question the choice of adjuvant:
   a) Layer of oil or globules on the solution surface.
   b) Flocculation: Fine particles in suspension or as a layer on the bottom of the jar.
   c) Clabbering: Thickening texture (coagulated) like gelatin.

Sprayer Cleanup
If spray equipment is dedicated to application of aquatic herbicides, follow the following steps to clean the spray equipment:

- Completely drain the spray tank and rinse the application equipment thoroughly, including the inside and outside of the tank and all in-line screens.
DIRECTIONS FOR USE TO CONTROL SUBMERSED AND FLOATING WEEDS USING SUBSURFACE APPLICATION

PROPELLER Aquatic Herbicide will control submersed and floating weeds listed in Table 2, Submersed and Floating Weeds Controlled by Subsurface Application, when applied subsurface with appropriate equipment.

<table>
<thead>
<tr>
<th>Common Name</th>
<th>Scientific Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coontail</td>
<td>Ceratophyllum demersum</td>
</tr>
<tr>
<td>Duckweed</td>
<td>Lemna spp.</td>
</tr>
<tr>
<td>Fanwort</td>
<td>Cabomba caroliniana</td>
</tr>
<tr>
<td>Hydrola</td>
<td>Hydrilla vericillata</td>
</tr>
<tr>
<td>Hygrophila</td>
<td>Hygrophila polysperma</td>
</tr>
<tr>
<td>Naiad, Southern</td>
<td>Najas guadalupensis</td>
</tr>
<tr>
<td>Pondweed, Curlyleaf</td>
<td>Potamogeton crispus</td>
</tr>
<tr>
<td>Pondweed, Sagol</td>
<td>Potamogeton pectinatus</td>
</tr>
<tr>
<td>Pondweed, Variable-Leaf</td>
<td>Potamogeton diversifolius</td>
</tr>
<tr>
<td>Water Fern</td>
<td>Salvinia spp.</td>
</tr>
<tr>
<td>Water Lettuce</td>
<td>Pistia stratiotes</td>
</tr>
<tr>
<td>Watermeal</td>
<td>Wolffia spp.</td>
</tr>
<tr>
<td>Watermilfoil, Eurasiensis</td>
<td>Myriophyllum spicatum</td>
</tr>
<tr>
<td>Watermilfoil, Variable-Leaf</td>
<td>Myriophyllum heterophyllum</td>
</tr>
</tbody>
</table>

Subsurface Application

Apply PROPELLER Aquatic Herbicide at a rate that will produce an initial concentration of 200 to 400 ppb (of active ingredient flumioxazin) in the water column.

PROPELLER Aquatic Herbicide 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 PROPELLER Aquatic Herbicide under these conditions may provide only partial weed control, and regrowth is likely. For best control, apply PROPELLER Aquatic Herbicide in a minimum of 30 gal of water per acre in the early morning to actively growing weeds and early in the season before surface matting occurs. Complete coverage and sufficient contact time of submersed weeds with PROPELLER Aquatic Herbicide is required for optimal performance. Application of PROPELLER Aquatic Herbicide with subsurface trailing hoses designed to distribute the herbicide within the plant stand will provide more effective and longer term control of submersed weeds. Use Table 3, Subsurface Application Rates to determine the amount of PROPELLER Aquatic Herbicide needed to achieve desired concentration at different water depths. Use higher concentrations when weed biomass is heavy and weeds are more mature and topped out. Any untreated plants that are left in the water column can re-infest treated areas that had been previously controlled. If a second application is required to provide control, make the treatment once the return of these weeds is first observed, but no sooner than 28 days after the last treatment.

When applying PROPELLER Aquatic Herbicide to densely packed actively growing submersed weeds, a rapid decomposition of vegetation resulting from herbicide treatment can result in a lack of oxygen in water. A sudden decrease in dissolved oxygen can result in fish suffocation. If aquatic vegetation is dense, treat submersed weeds in sections to avoid a rapid decrease in dissolved oxygen.

PROPELLER Aquatic Herbicide may be tank mixed with other registered submersed applied herbicides for enhanced control of submersed and floating weeds. It is the pesticide user’s responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

Application Equipment

To improve distribution in the water column and ensure adequate coverage apply PROPELLER Aquatic Herbicide with subsurface trailing hoses in order to place the herbicide under the surface and throughout the biomass of aquatic vegetation. Keep swath width to a minimum in order to maximize contact with submersed aquatic vegetation.

Information on Hydrilla Control in Florida

Apply PROPELLER Aquatic Herbicide as a subsurface treatment for hydrilla control. For best control of hydrilla apply during the late Winter/early Spring and/or early to late Fall. Efficacy of PROPELLER Aquatic Herbicide will be enhanced at these timings due to lower potential biomass present and lower pH of the water. If applied to mature topped out hydrilla, PROPELLER Aquatic Herbicide will cause some discoloration and loss of growing tips, but regrowth will be rapid. Tank mixing PROPELLER Aquatic Herbicide with other registered herbicides is suggested, especially if hydrilla is approaching maturity or biomass is heavy.

<table>
<thead>
<tr>
<th>Water Depth (feet)</th>
<th>Pounds of PROPELLER Aquatic Herbicide Required Per Surface Acre to Achieve Desired Water Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>200 ppb</td>
</tr>
<tr>
<td>1</td>
<td>1.1</td>
</tr>
<tr>
<td>2</td>
<td>2.1</td>
</tr>
<tr>
<td>3</td>
<td>3.2</td>
</tr>
<tr>
<td>4</td>
<td>4.2</td>
</tr>
<tr>
<td>5</td>
<td>5.3</td>
</tr>
<tr>
<td>6</td>
<td>6.4</td>
</tr>
<tr>
<td>7</td>
<td>7.4</td>
</tr>
</tbody>
</table>

Example: to achieve an initial concentration of 200 ppb of flumioxazin in a 4 foot deep water column, apply 4.2 lbs of PROPELLER Aquatic Herbicide per surface acre.