Tradewind™ Herbicide

FOR SELECTIVE MANAGEMENT OF SURFACE, SUBMERSED AND EMERGENT AQUATIC WEEDS IN BAYOUS, DRAINAGE DITCHES, LAKES, MARSHES, NON-IRRIGATION CANALS, PONDS AND RESERVOIRS

Active Ingredient
Bispyribac-sodium (sodium 2,6-bis[(4,6-dimethoxypyrimidin-2-yl)oxy]benzoate) ......................... 80.0%
Other Ingredients .............................................. 20.0%
Total .......................................................... 100.0%

Tradewind™ Herbicide is a soluble powder containing 80% active ingredient.

EPA Reg. No. 59639-165  EPA Est. 065387-AR-001

KEEP OUT OF REACH OF CHILDREN
CAUTION
SEE NEXT PAGE FOR ADDITIONAL PRECAUTIONARY STATEMENTS

NET CONTENTS 32 OUNCES
(4/8 OUNCE WSP)
PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS & DOMESTIC ANIMALS

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

FIRST AID
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 the poison control center or doctor.
Do not give anything by mouth to an unconscious person.

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 on skin or clothing: 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.

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.

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 800-892-0099 for emergency medical treatment information.

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 is phytotoxic to some non-target plants. Follow use directions in order to minimize impacts to non-target vegetation. Do not apply to water except as specified on the label.

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 spray drift. Only protected handlers may be in the treatment area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

See precautionary language before using treated water for irrigation.

PERSONAL PROTECTIVE EQUIPMENT (PPE):
Some materials that are chemical-resistant to this product are listed below. If you want more options, follow instructions for category A on an EPA chemical resistant category selection chart.

Applicators and other handlers must wear: long-sleeved shirt and long pants, chemical resistant gloves such as barrier laminate or butyl rubber ≥ 14 mils or nitrile rubber ≥ 14 mils or viton rubber ≥ 14 mils, shoes plus socks.

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.

DISCLAIMER, RISKS OF USING THIS PRODUCT, LIMITED WARRANTY AND LIMITATION OF LIABILITY

IMPORTANT: Read the entire Label including this Disclaimer, Risks of Using this Product, Limited Warranty, and Limitation of Liability before using this product. If the terms are not acceptable THEN DO NOT USE THE PRODUCT; rather, return the unopened product within 15 days of purchase for a refund of the purchase price.

RISKS OF USING THIS PRODUCT
The Buyer and User (referred to collectively herein as “Buyer”) of this product should be aware that there are inherent unintended risks associated with the use of this product, which are impossible to eliminate. These risks include, but are not limited to, injury to plants and crops to which this product is applied, lack of control of the target pests or weeds, resistance of the target pest or weeds to this product, injury caused by drift, and injury (continued)
Valent and Seller offer this product, and Buyer accepts it, subject to the foregoing Disclaimer, Risks of Using This Product, Limited Warranty and Limitation of Liability, which may not be modified by any oral or written agreement.

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 the Buyer and Buyer agrees to assume the risks associated with such use.

PRODUCT INFORMATION

Tradewind Herbicide is a selective herbicide that will control aquatic weeds in lakes, ponds, non-irrigation canals, and other water bodies with limited or no outflow. Tradewind Herbicide may be applied as a subsurface application targeting submerged aquatic weeds or as a surface application targeting floating and emergent undesirable aquatic areas. Tradewind Herbicide is formulated as an 80 percent soluble powder and is packaged in water soluble packets that are mixed and applied to aquatic areas. Tradewind Herbicide may be applied to the following slow moving or quiescent bodies of water where there is minimal to rotational carryover in the soil:

- Lakes
- Marshes
- Ditches
- Ponds
- Reservoirs

Application to more mature or slow growing plants may decrease the speed and/or level of control. Application in the spring when plants are actively growing is recommended. Tradewind Herbicide is formulated as an 80 percent soluble powder and is mixed in water and applied to aquatic areas.

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Efficacy of subsurface applications may be decreased if exposure of targeted plants can not be maintained for a sufficient time. Insufficient exposure time may result from rapid inflow of fresh water into treated areas, and/or small spot or shoreline treatment within larger water bodies. Application to public aquatic areas may require approval and/or permits. Consult with local or state agencies, if required.

Tank Mixes With Other Aquatic Herbicides
*Tradewind* Herbicide may be tank mixed with other aquatic herbicides and applied as a foliar or subsurface treatment for aquatic weed control. Aquatic plant managers should consult with Valent U.S.A. Corporation prior to application for the latest recommendations.

**USE RESTRICTIONS FOR ALL APPLICATIONS**
- Do not apply into flowing water, 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).
- Do not apply to water utilized for crayfish farming.
- **Important:** This product is a herbicide and is active at low concentrations. Do not use treated water to irrigate food or ornamental crops until the concentration of Bispyribac-sodium in water is less than or equal to 1 ppb. Analyze water samples with Enzyme-Linked Immunosorbent Assay (ELISA) or other approved analytical methods.
- Do not make subsurface applications to water bodies subject to rapid dilution.
- When applying foliar sprays, do not allow spray mist to drift on to desirable broadleaf plants or injury may result. To minimize potential for spray drift, refer to the Spray Drift Management section of this label.
- The use of this product may result in a drop in dissolved oxygen (due to the decay of target and non-target plants coupled with decreased oxygen production via loss of photosynthesis) in the treated water body which may, in turn, indirectly impact non-target plants and animals.

**RESISTANCE MANAGEMENT**
This product is a Group 2 herbicide. Any weed population may contain or develop plants naturally resistant to *Tradewind* Herbicide and other Group 2 herbicides. Weed species with acquired resistance to Group 2 herbicides may eventually dominate the weed population if Group 2 herbicides are used repeatedly in the same area 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 2 herbicides.

To delay herbicide resistance:
- Alternate herbicides used for aquatic weed control when possible.
- Base herbicide use on a comprehensive Integrated Pest Management (IPM) program.
- Monitor treated weed populations for loss of efficacy.
- Contact your local extension specialist, other experts appropriate to aquatic use, and/or manufacturer for herbicide resistance management and/or integrated weed management recommendations.

For further information or to report suspected resistance, you may contact Valent U.S.A. Corporation at the following toll-free number: 800-89-VALENT (898-2536).

**SPRAY DRIFT MANAGEMENT FOR FOLIAR OR SURFACE APPLICATIONS**
Do not apply under circumstances where possible drift to unprotected persons or to food, forage or other plantings that might be damaged or crops thereof rendered unfit for sale, use or consumption can occur. These precautions do not apply when *Tradewind* Herbicide is injected into water by closed systems.
- Use the largest droplet size consistent with acceptable efficacy. Formation of very small droplets may be minimized by appropriate nozzle selection, by orienting nozzles away from the air stream as much as possible and by using appropriate spray boom pressure. For ground boom and aerial applications, use medium or coarser spray nozzles according to ASAE 572 definition for standard nozzles or a volume mean diameter (VMD) of 300 microns or greater for spinning atomizer nozzles.
- Make aerial, ground or watercraft-based applications when wind velocity favors on-target product deposition. Apply only when the wind speed is less than or equal to 10 mph.
- Do not make aerial or ground applications into areas of temperature inversions. Inversions are characterized by stable air and increasing temperatures with increasing distance above the ground. Mist or fog may indicate the presence of an inversion in humid areas. Where permissible by local regulations, the applicator may detect the presence of an inversion by producing smoke and observing a smoke layer near the ground surface.
- Low humidity and high temperatures increase the evaporation rate of spray droplets and therefore the likelihood of increased spray drift. Avoid spraying during conditions of low humidity and/or high temperatures.

**APPLICATION AND SPRAYER INFORMATION**
Properly maintain and calibrate all aerial, ground and watercraft based application equipment.
MIXING INSTRUCTIONS
Water soluble packets containing Tradewind Herbicide should completely dissolve in the spray tank within approximately five minutes. The rate at which water soluble packets dissolve may be slowed by cold water, lack of agitation or water containing high concentrations of boron or sulfur.
1. Fill clean spray tank 1/3 to 1/2 of desired level with clean water.
2. While agitating, add Tradewind Herbicide and ensure it has dissolved completely before proceeding. Agitation should create a rippling or rolling action on the water surface.
3. Fill spray tank to desired level with water. Continue agitation until spray solution has been applied.
4. Mix only the amount of spray solution that can be applied the day of mixing.
5. Apply Tradewind Herbicide within 24 hours after mixing with water in spray tank.

ADDITIVES
When applying Tradewind Herbicide to the foliage of floating or emerged aquatic weeds, mix with an adjuvant approved for use in aquatic habitats. Valent recommends the use of a Chemical Producers and Distributors Association certified adjuvant. Mix Tradewind Herbicide with a non-ionic surfactant containing at least 80% active ingredient. Follow adjuvant manufacturer's label rates. Verify mixing compatibility with a jar test before using.

SPRAYER CLEANUP
If spray equipment is dedicated to application of aquatic herbicides, completely drain the spray tank and rinse the application equipment thoroughly, including the inside and outside of the tank and all inline screens.
Trace amounts of Tradewind Herbicide in or on mixing or spraying equipment may have an adverse effect on subsequently sprayed plants. Therefore, if spray equipment will be used for purposes other than applying aquatic herbicides, the following steps must be used to clean the spray equipment after application of Tradewind Herbicide:
1. Completely drain the spray tank and rinse the spray equipment thoroughly, including the inside and outside of the tank and all inline 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 again with clean water.

CONTROL OF FLOATING AND EMERGED WEEDS USING SURFACE APPLICATION
Table 1 lists floating and emergent aquatic weeds that Tradewind Herbicide will control when applied as a broadcast spray with appropriate equipment. Plants that are partially controlled may show herbicide stress during active growth, but are less likely to be killed by treatment. Use of lower labeled rates will increase the level of selectivity to desirable vegetation. For best results, apply Tradewind Herbicide to the foliage of actively growing weeds.

Table 1. Floating and Emergent Weeds

<table>
<thead>
<tr>
<th>Common Name</th>
<th>Scientific Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alligatorweed</td>
<td>Alternanthera philoxeroides</td>
</tr>
<tr>
<td>Duckweed</td>
<td>Lemna spp.</td>
</tr>
<tr>
<td>Mosquito Fern</td>
<td>Azola caroliniana</td>
</tr>
<tr>
<td>Parrotfeather</td>
<td>Myriophyllum aquaticum</td>
</tr>
<tr>
<td>Water Fern</td>
<td>Salvinia spp.</td>
</tr>
<tr>
<td>Water Hyacinth</td>
<td>Eichhornia crassipes</td>
</tr>
<tr>
<td>Water Lettuce</td>
<td>Pistia stratiotes</td>
</tr>
<tr>
<td>Water Pennywort</td>
<td>Hydrocotyle spp.</td>
</tr>
</tbody>
</table>

Surface Application
Apply Tradewind Herbicide as a broadcast spray at 1 to 2 ounces of formulated product per acre. Use higher rate for more mature, denser weed growth. Apply in a minimum of 30 gals of water per acre to ensure adequate coverage. Allow 30 days between applications and apply no more than 8 oz of product per acre per year. Do not exceed 4 applications per year.

When applying to densely packed actively growing surface weeds, ensure adequate coverage. A second application may be required for complete control under these conditions.

Tradewind Herbicide may be tank mixed with 2,4-D, diquat or other registered foliar applied aquatic herbicides for enhanced control of floating and emergent weeds.

Application Equipment
Apply Tradewind Herbicide with sprayers equipped with nozzles designed to deliver the desired spray pressure and spray volume. Apply by backpack or handgun sprayer, airboat, helicopter, airplane or other application equipment that will ensure thorough coverage of target plant foliage.

AERIAL APPLICATION
Allow 30 days between applications. For surface applications apply no more than 8 oz of product per acre. Do not exceed 4 applications per year. Apply Tradewind Herbicide by air at 1 to 2 oz of formulated product per acre. To obtain satisfactory weed control, aerial application of Tradewind Herbicide must provide uniform coverage of weeds. Do not apply by air when drift is possible or when
wind velocity is more than 10 mph. Do not spray *Tradewind* Herbicide within 200 feet of dwellings, adjacent sensitive crops or environmentally sensitive areas. To obtain satisfactory application and minimize drift, observe the following directions when applying by air:

**Volume and Pressure**

Apply *Tradewind* Herbicide in 5 to 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 generally provide more consistent weed control.

**Nozzles and Nozzle Operation**

Use nozzles that produce flat or hollow cone spray patterns. Use non-drip type nozzles such as diaphragm 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 rotors.

**Adjuvants**

Refer to the ADDITIVES section or the tank mix partners label for adjuvant recommendation.

### CONTROL OF SUBMERSED WEEDS USING SUBSURFACE APPLICATION

Table 2 lists submersed aquatic plants that *Tradewind* Herbicide will control when applied subsurface with appropriate equipment. Plants that are partially controlled may show herbicide stress during active growth, but are less likely to be killed by treatment. Use of lower labeled rates will increase the level of selectivity to desirable vegetation.

<table>
<thead>
<tr>
<th>Common Name</th>
<th>Scientific Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrilla</td>
<td><em>Hydrilla verticillata</em></td>
</tr>
<tr>
<td>Pondweed, Sago</td>
<td><em>Potamogeton pectinatus</em></td>
</tr>
<tr>
<td>Watermilfoil, Eurasian</td>
<td><em>Myriophyllum spicatum</em></td>
</tr>
</tbody>
</table>

Best results with *Tradewind* Herbicide will be achieved when applied to young and actively growing submersed weeds that have limited biomass.

**Subsurface Application Rates**

Apply *Tradewind* Herbicide at a rate that will produce an initial concentration of 20 to 45 ppb in the water column of the treatment zone. Use the higher concentrations when weed biomass is heavy, when weeds are more mature and topped out, and/or when treating less susceptible plants. Use Table 3 to determine amount of *Tradewind* Herbicide needed to achieve desired concentration at different water depths. For optimal control, repeat applications to maintain desired water column concentrations of *Tradewind* Herbicide for 60 to 90 days after initial application, or until target weeds are controlled. Do not reapply within 14 days after initial application. Do not exceed 4 applications per year.

Multiple applications (up to 4 per year) of *Tradewind* Herbicide at lower rates may be needed in water bodies where there is a requirement for selective weed control, or the need to control weed species with a longer exposure time requirement.

For subsurface applications, do not allow the water concentration to exceed 45 ppb of *Tradewind* Herbicide in the treatment zone for any application (either initial or when retreating to maintain the effective water concentration). A maximum of 4 applications is allowed per year.

The use of ELISA (Enzyme-Linked Immunosorbent assay) analysis or other analytical methods is recommended to determine if and when it is necessary to make sequential applications of *Tradewind* Herbicide.

**Application Equipment**

To ensure adequate coverage, apply *Tradewind* Herbicide with weighted trailing hoses in order to place the herbicide under the surface and throughout the biomass of aquatic vegetation. *Tradewind* Herbicide may also be applied with handguns to the water surface and will adequately mix with the water column. Keep swath width to a minimum in order to maximize contact with submersed aquatic vegetation.

**Information on Hydrilla Control**

For best control of hydrilla, apply during late Winter through Spring (February through May). Efficacy of *Tradewind* Herbicide will be enhanced during this period due to the combination of lower initial plant biomass and high growth rates.

**Tank Mixes With Other Aquatic Herbicides**

*Tradewind* Herbicide may be tank mixed with other aquatic herbicides and applied as a subsurface treatment for hydrilla control. Hydrilla control may be improved by tank mixing *Tradewind* Herbicide with other approved aquatic herbicides or applying contact herbicides in sequence or in combination with *Tradewind* Herbicide.
Table 3. Subsurface Application Rates

<table>
<thead>
<tr>
<th>Water Depth (ft)</th>
<th>Concentration of Tradewind Herbicide in Water (ppb)</th>
<th>Pounds (Ounces) Product per Surface Acre at Given Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>15 ppb</td>
<td>20 ppb</td>
</tr>
<tr>
<td>1</td>
<td></td>
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</tr>
<tr>
<td></td>
<td>0.05</td>
<td>0.07</td>
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<tr>
<td></td>
<td>(0.8)</td>
<td>(1.1)</td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>0.10</td>
<td>0.13</td>
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<tr>
<td></td>
<td>(1.6)</td>
<td>(2.1)</td>
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<tr>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>0.15</td>
<td>0.20</td>
</tr>
<tr>
<td></td>
<td>(2.4)</td>
<td>(3.2)</td>
</tr>
<tr>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>0.20</td>
<td>0.27</td>
</tr>
<tr>
<td></td>
<td>(3.2)</td>
<td>(4.3)</td>
</tr>
<tr>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>0.25</td>
<td>0.33</td>
</tr>
<tr>
<td></td>
<td>(4)</td>
<td>(5.3)</td>
</tr>
<tr>
<td>6</td>
<td></td>
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</tr>
<tr>
<td></td>
<td>0.30</td>
<td>0.40</td>
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<tr>
<td></td>
<td>(4.8)</td>
<td>(6.4)</td>
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<tr>
<td>7</td>
<td></td>
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</tr>
<tr>
<td></td>
<td>0.35</td>
<td>0.47</td>
</tr>
<tr>
<td></td>
<td>(5.6)</td>
<td>(7.5)</td>
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<tr>
<td>8</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>0.40</td>
<td>0.53</td>
</tr>
<tr>
<td></td>
<td>(6.4)</td>
<td>(8.5)</td>
</tr>
</tbody>
</table>

This table is intended to be a guide for determining rate per surface acre. Multiply the rate per surface acre by the total acres to be treated to determine the amount to apply to a given area. For example, if treating 4 surface acres on a 5 foot deep body of water at 30 ppb, apply 2 pounds of product (4 water soluble bags). Do not open water soluble bags.
STORAGE AND DISPOSAL
Do not contaminate water, food or feed by storage, disposal or cleaning of equipment.

PESTICIDE STORAGE
Store in a cool dry place.
Keep pesticide in original container.
Keep container closed when not in use.
Do not put concentrate or dilute into food or drink containers.
Not for use or storage in or around the home.
For help with any spill, leak, fire or exposure involving this material, call day or night 800-892-0099.

PESTICIDE DISPOSAL
Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER HANDLING
Nonrefillable outer bag. Do not reuse or refill the outer bag. Completely empty bag into application equipment. Offer bag for recycling if available. If recycling is not available, then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.
Tradewind™
HERBICIDE

For selective management of surface, submersed and emergent aquatic weeds in bayous, drainage ditches, lakes, marshes, non-irrigation canals, ponds and reservoirs

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(4/8 OUNCE WSP)

Keep out of reach of children
Caution
See booklet for additional precautionary statements

Form 1796-B