

# **FLOATING AND EMERGENT WEEDS - SURFACE APPLICATION**

## General Information

### GENERAL INFORMATION

Tradewind Herbicide is a selective herbicide that will control aquatic weeds in lakes, ponds, nonirrigation canals and other water bodies with limited or no outflow. Tradewind Herbicide is formulated as an 80 percent soluble powder and is packaged in water soluble packets that are mixed with water and applied to aquatic areas.

Tradewind Herbicide may be applied as a subsurface application targeting submerged aquatic weeds or as a surface application targeting floating and emergent undesirable aquatic weeds. Tradewind Herbicide controls weeds by inhibiting acetolactate synthase (ALS), a key enzyme in the biosynthesis of the branched chain amino acids isoleucine, leucine, and valine. Symptoms of aquatic plants after treatment with ALS inhibitors include cessation of growth, discoloration of plant tissue with some yellowing and reddening of leaves and stems, followed by necrosis and death of plants. Symptoms occur slowly and may take two months or longer to fully affect target plants. The level and speed of control will be influenced by species, growth stage, growth rate and exposure time of targeted species, and the rate and timing of application. For best results, apply Tradewind Herbicide in the spring when plants are actively growing. Application to more mature or slow growing plants may decrease the speed and/or level of control.

Tradewind Herbicide may be applied to the following slow moving or quiescent bodies of water where there is minimum or no outflow:

- Bayous
- Drainage ditches
- Lakes
- Marshes
- Non-irrigation canals

- Ponds

- Reservoirs

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.

Refer in the label for tank mix information.

#### 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.

- Treated water may not be used as a water source for livestock until the concentration of Bispyribacsodium in water is < 1 ppb.

- 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 the 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.

## 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.

Refer in the label for other mixing instructions.

Limitations, Restrictions, and Exceptions

## FLOATING AND EMERGENT WEEDS

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.

### 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.

### Method

[Surface](#)

[Broadcast Spray](#)

### Rates

[field\\_rates 0](#)

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### Timings

[Postemergence \(Weed\)](#)