



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

August 3, 2023

Annette Marine
Agent for Sharda USA LLC
Sharda USA LLC
c/o Wagner Regulatory Associates, Inc.
P.O. Box 640
Hockessin, DE 19707

Subject: Notification per PRN 98-10 – Changing an Alternate Brand Name
(ABN) Product Name: Sharda **Bispyribac-Sodium 80% WP II**
EPA Registration Number: 83529-187
Application Date: 5/26/2023
Decision Number: 592205

Dear Ms. Marine:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 for the above referenced product. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10.

The alternate brand name “**Gale**” has been added to the product record.

If you have any questions, you may contact Sayed Islam at 202-566-2796 or via email at islam.sayed@epa.gov.

A handwritten signature in blue ink, appearing to read "H. McFarley".

For

Heather McFarley, Product Manager 24
Fungicide and Herbicide Branch
Registration Division (7505P)
Office of Pesticide Programs

[MASTER LABEL]

BISPYRIBAC-SODIUM GROUP 2 HERBICIDE

Sharda Bispyribac-Sodium 80% WP II

ABN: Storm ABN: Gale

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%

This product is a soluble powder containing 80% active ingredient.

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 this label, find someone to explain it to you in detail.)

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 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.
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.
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 by mouth to mouth, if possible. Call a poison control center or doctor for further treatment advice.

HOTLINE NUMBER

Have the product container or label with you when calling a poison control center or doctor or going for treatment. For emergency information concerning this product, call your poison control center at **1-800-222-1222**. For general information about this product, contact the National Pesticides Information Center (NPIC) at **1-800-858-7378**, Monday through Friday, 8 AM to 12 PM PST, or at <http://npic.orst.edu>.

[Optional referral statements when booklets and container labels are used:]

[See label booklet for [complete] [additional] [First Aid,] [Precautionary Statements], [Directions For Use], and [Storage and Disposal].]

EPA Reg. No. 83529-187

Manufactured for:

Sharda USA LLC 7217 Lancaster Pike, Suite A
Hockessin, Delaware 19707**NOTIFICATION**

83529-187

The applicant has certified that no changes, other than those reported to the Agency have been made to the labeling. The Agency acknowledges this notification by letter dated:

08/03/2023

EPA Est. No. XXXXX-XX-XXX

Net Contents: _____ [Lbs./Oz. [__ Oz. WSP.]

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND 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. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco, or using the toilet.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves including 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.

ENGINEERING CONTROLS STATEMENT

Water soluble packets, when used correctly, qualify as a closed mixing/loading system under the Worker Protection Standard [40 CFR 170.607 (d)]. Mixers and loaders handling this product while it is enclosed in intact water-soluble packets may elect to wear reduced PPE of long-sleeved shirt, long pants, shoes, socks, and chemical-resistant gloves. When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified above for “**applicators and other handlers**” and have such PPE immediately available for use in emergency, such as a spill or equipment break-down.

USER SAFETY RECOMMENDATIONS

Users should:

- 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.

Surface Water Advisory Statement

This product may impact surface water quality due to runoff of rainwater. This is especially true for poorly draining soils and soils with shallow ground water. This product is classified as having high potential for reaching surface water via runoff for several months or more after application. A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features including ponds, streams, and springs will reduce the potential loading of Bispyribac-Sodium from runoff water and sediment. Runoff of this product will be reduced by avoiding applications when rainfall or irrigation is expected to occur within 48 hours.

Groundwater Advisory Statement

This chemical has properties and characteristics associated with chemicals detected in groundwater. This chemical may leach into groundwater if used in areas where soils are permeable, particularly where the water table is shallow.

Non-Target Organism Advisory Statement

This product is toxic to plants and may adversely impact the forage and habitat of non-target organisms, including pollinators, in areas adjacent to the treated site. Protect the forage and habitat of non-target organisms by following label directions intended to minimize spray drift.

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.

Refer to the precautionary language before using treated water for irrigation.

PRODUCT INFORMATION

Sharda Bispyribac-Sodium 80% WP II is a selective herbicide that will control aquatic weeds in lakes, ponds, non-irrigation canals and

other water bodies with limited or no outflow. **Sharda Bispyribac-Sodium 80% WP II** 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.

Sharda Bispyribac-Sodium 80% WP II may be applied as a subsurface application targeting submerged aquatic weeds or as a surface application targeting floating and emergent undesirable aquatic weeds. **Sharda Bispyribac-Sodium 80% WP II** 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 2 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 **Sharda Bispyribac-Sodium 80% WP II** 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.

Sharda Bispyribac-Sodium 80% WP II 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, and Reservoirs.

Efficacy of subsurface applications may be decreased if exposure of targeted plants cannot 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.

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 water treated with **Sharda Bispyribac-Sodium 80% WP II** for hydroponic farming or to irrigate food crops, golf course greens or ornamental plants grown in greenhouses or nurseries until the concentration of Bispyribac-Sodium in water is less than or equal to 1 ppb.
- Water treated with **Sharda Bispyribac-Sodium 80% WP II** may be used to irrigate bermudagrass (except golf course greens) and St. Augustinegrass if the concentration of Bispyribac-Sodium is below 30 ppb. Repeated irrigation of St. Augustinegrass may cause chlorosis and growth regulation if the concentration of Bispyribac-Sodium in water is greater than 30 ppb. Prior to irrigating other turf species or landscape ornamentals with water treated with **Sharda Bispyribac-Sodium 80% WP II**, contact Sharda USA LLC if the concentration of Bispyribac-Sodium in treated irrigation water exceeds 1 ppb.
- Analyze water samples for Bispyribac-Sodium with Enzyme-Linked Immunosorbent Assay (ELISA) or other approved analytical methods.
- 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.

Sharda Bispyribac-Sodium 80% WP II Rate Summary	
Oz. of Sharda Bispyribac-Sodium 80% WP II	Pounds of Active Ingredient
1	0.05
2	0.1
4	0.3
8	0.4

RESISTANCE MANAGEMENT

Sharda Bispyribac-Sodium 80% WP II is a Group 2 herbicide. Any weed population may contain or develop plants naturally resistant to **Sharda Bispyribac-Sodium 80% WP II** and other Group 2 herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same field. Appropriate resistance- management strategies should be followed.

To delay herbicide resistance take one or more of the following steps:

- Rotate the use of **Sharda Bispyribac-Sodium 80% WP II** or other Group 2 herbicides within a growing season sequence or among growing seasons with different herbicide groups that control the same weeds in a field.
- Use tank mixtures with herbicides from a different group if such use is permitted; where information on resistance in target weed species is available, use the less resistance-prone partner at a rate that will control the target weed(s) equally as well as the more resistance-prone partner. Consult your local extension service or certified crop advisor if you are unsure as to which active ingredient is currently less prone to resistance.
- Adopt an integrated weed-management program for herbicide use that includes scouting and uses historical information related to herbicide use and crop rotation, and that considers tillage (or other mechanical control methods), cultural (e.g., higher crop seeding rates; precision fertilizer application method and timing to favor the crop and not the weeds), biological (weed-competitive crops or varieties) and other management practices.
- Scout before and after herbicide application to monitor weed populations for early signs of resistance development. Indicators of possible herbicide resistance include: (1) failure to control a weed species normally controlled by the herbicide at the dose

applied, especially if control is achieved on adjacent weeds; (2) a spreading patch of non-controlled plants of a particular weed species; (3) surviving plants mixed with controlled individuals of the same species. If resistance is suspected, prevent weed seed production in the affected area by an alternative herbicide from a different group or by a mechanical method for example hoeing or tillage. Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment when moving between fields, and planting clean seed.

- If a weed pest population continues to progress after treatment with this product, discontinue use of this product, and switch to another management strategy or herbicide with a different mode of action, if available.
- Contact your local extension specialist or certified crop advisors for additional pesticide resistance-management and/or integrated weed-management specified for specific crops and weed biotypes or to find out if suspected resistant weeds have been found in their region.
- For further information or to report lack of performance or suspected resistance, contact your Sharda USA, LLC representative.

MANDATORY SPRAY DRIFT

Aerial Applications

- **DO NOT** release spray at a height greater than 10 feet above the vegetative canopy, unless a greater application height is necessary for pilot safety.
- For all applications, applicators are required to use a Medium or ultra-coarse spray droplet size (ASABE S572.1).
- The boom length must not exceed 65% of the wingspan for airplanes or 75% of the rotor blade diameter for helicopters.
- Applicators must use 1/2 swath displacement upwind at the downwind edge of the field.
- Nozzles must be oriented so the spray is directed toward the back of the aircraft.
- **DO NOT** apply when wind speeds exceed 10 miles per hour at the application site.
- **DO NOT** apply during temperature inversions.

Ground Boom Applications:

- User must only apply with the release height specified by the manufacturer, but no more than 3 feet above the ground or crop canopy unless making a turf, pasture, or rangeland application, in which case applicators may apply with a nozzle height no more than 4 feet above the ground.
- For applications prior to the emergence of crops and target weeds, applicators are required to use a coarse or coarser droplet size (ASABE S572.1).
- For all other applications, applicators are required to use a medium or coarser droplet size (ASABE S572.1).
- **DO NOT** apply when wind speeds exceed 15 miles per hour at the application site.
- **DO NOT** apply during temperature inversions.

Boomless Ground Applications:

- Applicators are required to use a medium or coarser droplet size (ASABE S572.1) for all applications.
- **DO NOT** apply when wind speeds exceed 15 miles per hour at the application site.
- **DO NOT** apply during temperature inversions.

SPRAY DRIFT MANAGEMENT

THE APPLICATOR IS RESPONSIBLE FOR AVOIDING OFF-SITE SPRAY DRIFT. BE AWARE OF NEARBY NON-TARGET SITES AND ENVIRONMENTAL CONDITIONS.

IMPORTANCE OF DROPLET SIZE

An effective way to reduce spray drift is to apply large droplets. Use the largest droplets that provide target pest control. While applying larger droplets will reduce spray drift, the potential for drift will be greater if applications are made improperly or under unfavorable environmental conditions.

Controlling Droplet Size – Ground Boom

- **Volume** - Increasing the spray volume so that larger droplets are produced will reduce spray drift. Use the highest practical spray volume for the application. If a greater spray volume is needed, consider using a nozzle with a higher flow rate.
- **Pressure** - Use the lowest spray pressure specified for the nozzle to produce the target spray volume and droplet size.
- **Spray Nozzle** - Use a spray nozzle that is designed for the intended application. Consider using nozzles designed to reduce drift.

Controlling Droplet Size – Aircraft

- **Adjust Nozzles** - Follow nozzle manufacturer's specified for setting up nozzles. Generally, to reduce fine droplets, nozzles must be oriented parallel with the airflow in flight.

BOOM HEIGHT – Ground Boom

Use the lowest boom height that is compatible with the spray nozzles that will provide uniform coverage. For ground equipment, the boom must remain level with the crop and have minimal bounce.

RELEASE HEIGHT – Aircraft

Higher release heights increase the potential for spray drift. When applying aurally to crops, do not release spray at a height greater than 10 ft. above the crop canopy, unless a greater application height is necessary for pilot safety.

SHIELDED SPRAYERS

Shielding the boom or individual nozzles can reduce spray drift. Consider using shielded sprayers. Verify that the shields are not interfering with the uniform deposition of the spray on the target area.

TEMPERATURE AND HUMIDITY

When making applications in hot and dry conditions, use larger droplets to reduce effects of evaporation.

TEMPERATURE INVERSIONS

Drift potential is high during a temperature inversion. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. The presence of an inversion can be indicated by ground fog or by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing. Avoid applications during temperature inversions.

WIND

Drift potential generally increases with wind speed. **AVOID APPLICATIONS DURING GUSTY WIND CONDITIONS.** Applicators need to be familiar with local wind patterns and terrain that could affect spray drift.

Boom-less Ground Applications:

- Setting nozzles at the lowest effective height will help to reduce the potential for spray drift.

Handheld Technology Applications:

- Take precautions to minimize spray drift.

MIXING AND SPRAYING EQUIPMENT PREPARATION AND CLEANUP

Properly maintain and calibrate all aerial, ground, and watercraft-based application equipment.

Tank Mixes with Other Aquatic Herbicides

Sharda Bispyribac-Sodium 80% WP II may be tank mixed with other aquatic herbicides and applied as a foliar or subsurface treatment for aquatic weed control. Consult with Sharda USA LLC prior to applications for the most updated application information.

Instructions for Using Water Soluble Packages Directly into Spray Tanks

Water Soluble Packages (WSPs) are designed to dissolve in water. Agitation may be used, if necessary, to help dissolve the WSP. Failure to follow handling and mixing instructions can increase your exposure to the pesticide products in WSPs. WSPs, when used properly, qualify as a closed mixing/loading system under the Agricultural Worker Protection Standard [40 CFR 170.607(d)].

Handling Instructions

Follow these steps when handling pesticide products in WSPs.

1. Mix in spray tank only.
2. Handle WSP(s) in a manner that protects package from breakage and/or unintended release of contents. If package is broken, put on PPE required for clean-up and then continue with mixing instructions.
3. Keep the WSP(s) in outer packaging until just before use.
4. Keep the WSP dry prior to adding to the spray tank.
5. Handle with dry gloves and according to the label instructions for PPE.
6. Keep WSP intact. **DO NOT** cut or puncture WSP.
7. Reseal the WSP outer packaging to protect any unused WSP(s).

Mixing Instructions

Follow the steps below when mixing this product, including if tank mixed with other pesticide products. If being tank mixed, the mixing directions 1 through 9 below take precedence over the mixing directions of the other tank mix products. WSPs may, in some cases, be mixed with other pesticide products so long as the directions for use of all mixed products do not conflict. **DO NOT** tank mix this product with products that prohibit tank mixing or have conflicting mixing directions.

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.

1. If a basket or strainer is present in the tank hatch, remove prior to adding the WSP to the tank.
2. Fill tank with water to approximately one-third to one-half of the desired final volume of spray.
3. Stop adding water and stop any agitation.
4. Place intact/unopened WSP(s) into the tank.
5. **DO NOT** spray water from a hose or fill pipe to break or dissolve the WSP(s).
6. Start mechanical and recirculation agitation from the bottom of tank without using any overhead recirculation, if possible. If overhead recirculation cannot be turned off, close the hatch before starting agitation.
7. Dissolving the WSP(s) may take up to 5 minutes or longer, depending on water temperature, water hardness and intensity of agitation.

8. Stop agitation before tank lid is opened.
9. Open the lid to the tank, exercising caution to avoid contact with dusts or spray mix, to verify that the WSPs have fully dissolved and the contents have been thoroughly mixed into the solution.
10. **DO NOT** add other allowed products or complete filling the tank until the bags have fully dissolved and pesticide is thoroughly mixed.
11. Once the WSP have fully dissolved and any other products have been added to the tank, resume filling the tank with water to the desired level, close the tank lid, and resume agitation.
12. Use the spray solution when mixing is complete.
13. Maintain agitation of the diluted pesticide mix during transport and application.
14. It is unlawful to use any registered pesticide, including WSPs, in a manner inconsistent with its label.

Additives

When applying **Sharda Bispyribac-Sodium 80% WP II** to the foliage of floating or emerged aquatic weeds, mix with a Chemical Producers and Distributors Association certified adjuvant approved for use in aquatic habitats. Mix **Sharda Bispyribac-Sodium 80% WP II** 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 **Sharda Bispyribac-Sodium 80% WP II** 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 **Sharda Bispyribac-Sodium 80% WP II**:

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 **Sharda Bispyribac-Sodium 80% WP II** 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 **Sharda Bispyribac-Sodium 80% WP II** to the foliage of actively growing weeds.

Table 1 - Floating and Emergent Weeds

Common Name	Scientific Name	Common Name	Scientific Name
Alligatorweed	<i>Alternanthera philoxeroides</i>	Water Hyacinth	<i>Eichhornia crassipes</i>
Duckweed	<i>Lemna</i> spp.	Water Lettuce	<i>Pistia stratiotes</i>
Mosquito Fern	<i>Azola caroliniana</i>	[Watermeal]	[<i>Wolffia columbiana</i>]
Parrotfeather	<i>Myriophyllum aquaticum</i>	Water Pennywort	<i>Hydrocotyle</i> spp.
Water Fern	<i>Salvinia</i> spp.		

Surface Application

Apply **Sharda Bispyribac-Sodium 80% WP II** as a broadcast spray at 1 - 2 oz. (0.05 - 0.1 lb. a.i.) 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.

Restrictions:

- **DO NOT** apply more than 2 oz. (0.1 lb. a.i.) of **Sharda Bispyribac-Sodium 80% WP II** per application.
- Allow 30 days between applications and apply no more than 8 oz. (0.4 lb. a.i.) of **Sharda Bispyribac-Sodium 80% WP II** 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.

Sharda Bispyribac-Sodium 80% WP II 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 **Sharda Bispyribac-Sodium 80% WP II** 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

Apply **Sharda Bispyribac-Sodium 80% WP II** by air at 1 - 2 oz. (0.05 - 0.1 lb. a.i.) of formulated product per acre. To obtain satisfactory weed control, aerial application of **Sharda Bispyribac-Sodium 80% WP II** must provide uniform coverage of weeds. To obtain satisfactory application and minimize drift, observe the following directions when applying by air:

- **Volume and Pressure** - Apply **Sharda Bispyribac-Sodium 80% WP II** in 5 - 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 including 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.
- **Adjuvants** - Refer to the **Additives** section or the tank mix partner's label.

Restrictions:

- **DO NOT** apply more than 2 oz. (0.1 lb. a.i.) of **Sharda Bispyribac-Sodium 80% WP II** per acre per application.
- For surface applications, apply no more than 8 oz. (0.40 lb. a.i.) of **Sharda Bispyribac-Sodium 80% WP II** per acre per year.
- **DO NOT** exceed 4 applications per year.
- Allow 30 days between applications.
- **DO NOT** apply by air when drift is possible or when wind velocity is more than 10 mph.
- **DO NOT** spray **Sharda Bispyribac-Sodium 80% WP II** within 200 ft. of dwellings, adjacent sensitive crops, or environmentally sensitive areas.
- **DO NOT** place nozzles on the outer 25% of the wings or rotors.

CONTROL OF SUBMERSED WEEDS USING SUBSURFACE APPLICATION

Table 2 lists submersed aquatic plants that **Sharda Bispyribac-Sodium 80% WP II** 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 2 - Submersed Weeds Controlled by Subsurface Application

Common Name	Scientific Name	Common Name	Scientific Name
[Bacopa	<i>Bacopa</i> spp.]	Pondweed, Sago	<i>Potamogeton pectinatus</i>
[Egeria, Brazilian Elodea]	[<i>Egeria densa</i>]	Watermilfoil, Eurasian	<i>Myriophyllum spicatum</i>
[Cabomba, Fanwort]	[<i>Cabomba caroliniana</i>]	[Water Primrose]	[<i>Ludwigia</i> spp.]
Hydrilla	<i>Hydrilla verticillata</i>		

Best results with **Sharda Bispyribac-Sodium 80% WP II** will be achieved when applied to young and actively growing submersed weeds that have limited biomass.

Subsurface Application Rates

Apply **Sharda Bispyribac-Sodium 80% WP II** at a rate that will produce an initial concentration of 20 - 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 **Sharda Bispyribac-Sodium 80% WP II** needed to achieve desired concentration at different water depths. For optimal control, repeat applications to maintain desired water column concentrations of **Sharda Bispyribac-Sodium 80% WP II** for 60 - 90 days after initial application, or until target weeds are controlled.

Restrictions:

- Refer to **Table 3 - Subsurface Application Rates** for application rate per acre.
- **DO NOT** exceed 4 applications per year.
- Retreatment interval: minimum 14 days.
- For an 8-foot-deep lake, **DO NOT** exceed 4.8 lbs. (3.8 lbs. a.i.) of **Sharda Bispyribac-Sodium 80% WP II** per acre per year.
- For an 8-foot-deep lake, **DO NOT** apply more than 1.2 lbs. (0.95 lb. a.i.) of **Sharda Bispyribac-Sodium 80% WP II** per acre per application.

Multiple applications (up to 4 per year) of **Sharda Bispyribac-Sodium 80% WP II** 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 **Sharda Bispyribac-Sodium 80% WP II** in the treatment zone for any application (either initial or when retreating to maintain the effective water concentration).

Use ELISA (Enzyme-Linked Immunosorbent Assay) analysis or other analytical methods to help determine if and when it is necessary to make sequential applications of **Sharda Bispyribac-Sodium 80% WP II**.

Application Equipment

To ensure adequate coverage, apply **Sharda Bispyribac-Sodium 80% WP II** with weighted trailing hoses in order to place the herbicide under the surface and throughout the biomass of aquatic vegetation.

Sharda Bispyribac-Sodium 80% WP II 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.

Tank Mixes with Other Aquatic Herbicides

Sharda Bispyribac-Sodium 80% WP II may be tank mixed with other aquatic herbicides. Where rapid control of hydrilla is desired, apply **Sharda Bispyribac-Sodium 80% WP II** in combination or sequence with contact herbicides that are approved for aquatic use.

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.

Table 3. Subsurface Application Rates

Water Depth (Ft.)	Concentration of Sharda Bispyribac-Sodium 80% WP II in Water (ppb) Pounds (Ounces) Product per Surface Acre at Given Depth						
	15 ppb	20 ppb	25 ppb	30 ppb	35 ppb	40 ppb	45 ppb
1	0.05 (0.80) 0.04 lb. a.i.	0.07 (1.10) 0.055 lb. a.i.	0.08 (1.30) 0.065 lb. a.i.	0.10 (1.60) 0.08 lb. a.i.	0.12 (1.90) 0.095 lb. a.i.	0.13 (2.10) 0.105 lb. a.i.	0.15 (2.40) 0.12 lb. a.i.
2	0.10 (1.60) 0.08 lb. a.i.	0.13 (2.10) 0.105 lb. a.i.	0.17 (2.70) 0.135 lb. a.i.	0.20 (3.20) 0.16 lb. a.i.	0.23 (3.70) 0.185 lb. a.i.	0.27 (4.30) 0.215 lb. a.i.	0.30 (4.80) 0.24 lb. a.i.
3	0.15 (2.40) 0.12 lb. a.i.	0.20 (3.20) 0.16 lb. a.i.	0.25 (4.00) 0.2 lb. a.i.	0.30 (4.80) 0.24 lb. a.i.	0.35 (5.60) 0.28 lb. a.i.	0.40 (6.40) 0.32 lb. a.i.	0.45 (7.20) 0.36 lb. a.i.
4	0.20 (3.20) 0.16 lb. a.i.	0.27 (4.30) 0.215 lb. a.i.	0.33 (5.30) 0.265 lb. a.i.	0.40 (6.40) 0.32 lb. a.i.	0.47 (7.50) 0.375 lb. a.i.	0.53 (8.50) 0.425 lb. a.i.	0.60 (9.60) 0.48 lb. a.i.
5	0.25 (4.00) 0.2 lb. a.i.	0.33 (5.30) 0.265 lb. a.i.	0.42 (6.70) 0.335 lb. a.i.	0.50 (8.00) 0.4 lb. a.i.	0.58 (9.30) 0.465 lb. a.i.	0.67 (10.70) 0.535 lb. a.i.	0.75 (12.00) 0.6 lb. a.i.
6	0.30 (4.80) 0.24 lb. a.i.	0.40 (6.40) 0.32 lb. a.i.	0.50 (8.00) 0.4 lb. a.i.	0.60 (9.60) 0.48 lb. a.i.	0.70 (11.20) 0.56 lb. a.i.	0.80 (12.80) 0.64 lb. a.i.	0.90 (14.40) 0.72 lb. a.i.
7	0.35 (5.60) 0.28 lb. a.i.	0.47 (7.50) 0.375 lb. a.i.	0.58 (9.30) 0.465 lb. a.i.	0.70 (11.20) 0.56 lb. a.i.	0.82 (13.10) 0.655 lb. a.i.	0.93 (14.90) 0.745 lb. a.i.	1.05 (16.80) 0.84 lb. a.i.
8	0.40 (6.40) 0.32 lb. a.i.	0.53 (8.50) 0.425 lb. a.i.	0.67 (10.70) 0.535 lb. a.i.	0.80 (12.80) 0.64 lb. a.i.	0.93 (14.90) 0.745 lb. a.i.	1.06 (17.00) 0.85 lb. a.i.	1.20 (19.20) 0.96 lb. a.i.

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 lbs. of **Sharda Bispyribac-Sodium 80% WP II** (4 water soluble bags).

STORAGE AND DISPOSAL

DO NOT contaminate water, food or feed by storage and 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.

PESTICIDE DISPOSAL: Waste resulting from the use of this product must 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.]

[[Nonrefillable Plastic and Metal Containers (Capacity Equal to or Less Than 50 Pounds):]] Nonrefillable container. **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. Fill the container 1/4 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, for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. **DO NOT** burn, unless allowed by State and local ordinances. For Metal Containers, offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities.]

[[Nonrefillable Plastic and Metal Containers (Capacity Greater Than 50 Pounds):] Nonrefillable container. **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. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then, for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. **DO NOT** burn, unless allowed by State and local ordinances. For Metal Containers, offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities.]

[[Nonrefillable Plastic and Metal Containers, e.g., Intermediate Bulk Containers (IBC) (Size or Shape Too Large to be Tipped, Rolled or Turned Upside Down):] Nonrefillable container. **DO NOT** reuse or refill this container. Clean container promptly after emptying the contents from this container into application equipment or mix tank and before final disposal using the following pressure rinsing procedure. Insert a lance fitted with a suitable tank cleaning nozzle into the container and ensure that the water spray thoroughly covers the top, bottom, and all sides inside the container. The nozzle manufacturer generally provides instructions for the appropriate spray pressure, spray duration and/or spray volume. If the manufacturer's instructions are not available, pressure rinse the container for at least 60 seconds using a minimum pressure of 30 PSI with a minimum rinse volume of 10% of the container volume. Drain, pour or pump rinsate into application equipment or rinsate collection system. Repeat this pressure rinsing procedure two more times. Then, for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. For Metal Containers, offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities.]

[[Nonrefillable Paper or Plastic Bags, Fiber Sacks including Flexible Intermediate Bulk Containers (FIBC) or Fiber Drums with Liners:] Nonrefillable container. **DO NOT** reuse or refill this container. Completely empty paper or plastic bag, fiber sack or drum liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application or manufacturing equipment. Then offer for recycling if available or dispose of empty paper or plastic bag, fiber sack or fiber drum and liner in a sanitary landfill, or by incineration. **DO NOT** burn, unless allowed by State and local ordinances.]

[[Refillable Fiber Drums with Liners: Refillable container (fiber drum only). Refilling Fiber Drum:] Refill this fiber drum with this pesticide only. **DO NOT** reuse this fiber drum for any other purpose. Cleaning before refilling is the responsibility of the refiller. Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application or manufacturing equipment. Disposing of Fiber Drum and/or Liner: **DO NOT** reuse this fiber drum for any other purpose other than refilling (see preceding). Cleaning the container (liner and/or fiber drum) before final disposal is the responsibility of the person disposing of the container. Offer the liner for recycling if available or dispose of liner in a sanitary landfill, or by incineration. **DO NOT** burn, unless allowed by State and local ordinances. If drum is contaminated and cannot be reused, dispose of it in the manner required for its liner. To clean the fiber drum before final disposal, completely empty the fiber drum by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application or manufacturing equipment. Then offer the fiber drum for recycling if available or dispose of in a sanitary landfill, or by incineration. **DO NOT** burn, unless allowed by State and local ordinances.]

[[Refillable Metal Containers:] Refillable container. Refilling Container: Refill this container with this pesticide only. **DO NOT** reuse this container for any other purpose. Cleaning before refilling is the responsibility of the refiller. Prior to refilling, inspect carefully for damage including cracks, punctures, abrasions, worn out threads and closure devices. If damage is found, **DO NOT** use the container. Check for leaks after refilling and before transporting. If leaks are found, **DO NOT** reuse or transport container. Disposing of Container: **DO NOT** reuse this container for any other purpose other than refilling (see preceding). Cleaning the container before final disposal is the responsibility of the person disposing of the container. To clean the container before final disposal, use the following pressure rinsing procedure. Insert a lance fitted with a suitable tank cleaning nozzle into the container and ensure that the water spray thoroughly covers the top, bottom, and all sides inside the container. The nozzle manufacturer generally provides instructions for the appropriate spray pressure, spray duration and/or spray volume. If the manufacturer's instructions are not available, pressure rinse the container for at least 60 seconds using a minimum pressure of 30 PSI with a minimum rinse volume of 10% of the container volume. Drain, pour or pump rinsate into application equipment or rinsate collection system. Repeat this pressure rinsing procedure two more times. Then, for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. **DO NOT** burn, unless allowed by State and local ordinances. For Metal Containers, offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities.]

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