



OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

WASHINGTON, D.C. 20460

September 2, 2026

Edward Hearn
edward.hearn@syntechresearch.com
SHARDA USA LLC

Subject: Non-PRIA (Pesticide Registration Improvement Act) Labeling Amendment - Adding sublabel with residential and nonresidential turfgrass uses to align with the Drive 75 DF label, EPA Reg. No. 7969-130.
Product Name: Sharda Quinclorac 75% DF
Admin Number: 83529-75
EPA Receipt Date: 11/18/2025
Action Case Number: 00676561

Dear Edward Hearn:

The amended labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable.

This approval does not affect any terms or conditions that were previously imposed on this registration. You continue to be subject to existing terms or conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one (1) copy of the final printed labeling before you release this product for shipment with the new labeling. In accordance with 40 CFR § 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR § 152.3.

Should you wish to add/retain a reference to your company's website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by EPA. If the website is false or misleading, the product will be considered to be misbranded and sale or distribution of the product is unlawful under FIFRA section 12(a)(1)(E). 40 CFR § 156.10(a)(5) lists examples of statements the EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the EPA find or if it is brought to our attention that a website contains statements or claims substantially differing from statements or claims made in connection with obtaining a FIFRA section 3 registration, the website will be referred to the EPA's Office of Enforcement and Compliance Assurance.

Your release for shipment of this product constitutes acceptance of these terms. If these terms are not complied with, this registration will be subject to cancellation in accordance with FIFRA section 6.

If you have questions, please contact Andrew Watkins via email at watkins.andrew@epa.gov.

Sincerely,

Kable Bo Davis

Kable Bo Davis, Senior Advisor
HB, RD
Office of Pesticide Programs

GROUP

4

HERBICIDE

{Master Label}

[Sub-label A: Rice]

[Sub-label B: Turf]

Sharda Quinclorac 75% DF

A dry flowable herbicide for use in rice and postemergent residential and nonresidential turfgrasses.

ACTIVE INGREDIENT:	% By Weight
Quinclorac: 3,7-dichloro-8-quinolinecarboxylic acid	75.0%
OTHER INGREDIENTS:	25.0%
TOTAL:	100.0%

KEEP OUT OF REACH OF CHILDREN WARNING/AVISO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.
(If you do not understand the label, find someone to explain it to you in detail.)

FIRST AID	
IF IN EYES	- Hold eye open and rinse slowly and gently with water for 15-20 minutes. - Remove contact lenses, if present, after 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. - Have person sip a glass of water if able to swallow. DO NOT induce vomiting unless told to by a poison control center or doctor. DO NOT give anything by mouth to an unconscious person.
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 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 .	

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

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

EPA Reg. No.: 83529-75

EPA Est. No.: _____

Net Contents: _____

Manufactured for:

Sharda USA LLC7217 Lancaster Pike, Suite A
Hockessin, Delaware 19707**ACCEPTED**

09/02/2026

Under the Federal Insecticide, Fungicide
and Rodenticide Act as amended, for the
pesticide registered under
EPA Reg. No. 83529-75

GROUP

4

HERBICIDE

[Sub-label A: Rice]

Sharda Quinclorac 75% DF

A dry flowable herbicide for use in rice.

ACTIVE INGREDIENT:

Quinclorac: 3,7-dichloro-8-quinolinecarboxylic acid

% By Weight

..... 75.0%

OTHER INGREDIENTS:

..... 25.0%

TOTAL:

..... 100.0%

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EPA Reg. No.: 83529-75

EPA Est. No.: _____

Net Contents: _____

Manufactured for:

Sharda USA LLC



7217 Lancaster Pike, Suite A
Hockessin, Delaware 19707

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
WARNING

Causes substantial but temporary eye injury. Harmful if swallowed or absorbed through skin. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. **DO NOT** get in eyes. Avoid contact with skin or clothing.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

- Protective eyewear
- Long-sleeved shirt and long pants
- Chemical-resistant gloves, such as barrier laminate, butyl rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, or nitrile rubber ≥ 14 mils, polyethylene, PVC ≥ 14 mils, or Viton ≥ 14 mils
- Shoes plus socks

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. **DO NOT** reuse them. 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

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands thoroughly with soap and water after handling and 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

Keep out of lakes, ponds and streams. **DO NOT** apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark, except as specified on this label for use in rice. **DO NOT** contaminate water when disposing of equipment washwater or rinsate.

GROUNDWATER ADVISORY

Quinclorac has properties and characteristics associated with chemicals detected in groundwater. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

DIRECTIONS FOR USE

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

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), notification to workers, and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

DO NOT enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:

- Protective eyewear
- Coveralls
- Waterproof gloves
- Shoes plus socks

PRODUCT INFORMATION

Sharda Quinclorac 75% DF is an herbicide for weed control in dry-seeded, water-seeded and CLEARFIELD® rice planting and production. Sharda Quinclorac 75% DF is a dry flowable formulation that is designed to dissolve in water and can be applied with common agricultural spray equipment.

Use Restrictions:

- **DO NOT** apply more than 0.67 lb. of **Sharda Quinclorac 75% DF** (0.5 lb. quinclorac) per acre per crop season or per year.
- **DO NOT** apply more than 0.67 lb. of **Sharda Quinclorac 75% DF** (0.5 lb. quinclorac) per acre per application.
- **Pre-Harvest Interval (PHI): DO NOT** apply **Sharda Quinclorac 75% DF** within 40 days of harvest.
- **DO NOT** apply **Sharda Quinclorac 75% DF** to rice that is heading.
- **DO NOT** use **Sharda Quinclorac 75% DF** on precision-cut fields until the second rice crop as injury can result.
- **DO NOT** use **Sharda Quinclorac 75% DF** on sand and loamy sand soils.
- **DO NOT** apply to rice fields with a history of poor water-holding capacity (porous subsoil) as erratic weed control may occur.
- **DO NOT** make application of **Sharda Quinclorac 75% DF** on any rice soil that does not have an impermeable hard pan to provide good water-holding capacity.
- **DO NOT** allow **Sharda Quinclorac 75% DF** to drift outside the intended target areas.
- Apply as a medium or coarser spray (ASABE Standard S-572.1).
- **Ground Applications: DO NOT** make application when wind speed is greater than 10 mph.
- **Ground Applications: DO NOT** release spray at a height greater than 30 inches above the ground.
- **Aerial Applications: DO NOT** make application when wind speed is greater than 8 mph.
- **Aerial applications: DO NOT** release spray at a height greater than 10 feet above the crop canopy unless a higher application height is required for reasons of pilot safety.
- **DO NOT** make application of **Sharda Quinclorac 75% DF** when air temperatures exceed 90° F.
- **DO NOT** use rice straw or processing by-products (such as chaff, hulls, etc.) as soil amendments or mulch for high-value crops such as bedding stock, vegetable transplants, or ornamental and fruit trees.
- **DO NOT** use treated rice fields for the aquaculture of edible fish and crustaceans (crayfish).
- **DO NOT** use water from rice cultivation after a **Sharda Quinclorac 75% DF** application to irrigate any crop other than rice.
- **Sharda Quinclorac 75% DF** cannot be used to formulate or reformulate any other pesticide product.
- **DO NOT** make application of this product through any type of irrigation system.

Crop Rotation Restrictions:

- **DO NOT** plant any crop other than rice for a period of 309 days following application.
- **DO NOT** plant eggplant and tobacco within 12 months (one year) on fields treated with **Sharda Quinclorac 75% DF**.
- **DO NOT** plant tomatoes and carrots within 24 months (two years) on fields treated with **Sharda Quinclorac 75% DF**.

Only rice may be immediately replanted, in the event of crop failure.

Geographic Restrictions:

- **Arkansas:** Contact the Arkansas Plant Board or a representative for specific instructions about making application of **Sharda Quinclorac 75% DF** in Arkansas because there are additional restrictions in the state of Arkansas. In Arkansas, application of **Sharda Quinclorac 75% DF** (quinclorac) must not be made in an area from one-mile west of Highway No. 1 to one-mile east of Highway No. 163 from the Craighead/Poinsett county line to the Cross/Poinsett county line. Furthermore, no aerial application is allowed in the area of Poinsett County one-mile west of Hwy. No. 1 to two-miles west of Hwy. No. 1 and one-mile east of Hwy. No. 163 to Ditch No. 10, from the Craighead/Poinsett county line to the Cross/Poinsett county line.

Crop Tolerance: When used per label use directions and under typical growing conditions, rice is tolerant to **Sharda Quinclorac 75% DF**. Adverse weather conditions or high use rate from spray overlap or other sources may contribute to leaf twisting, buggy whipping, or other abnormal growth characteristics. Seed on the soil surface in direct contact with **Sharda Quinclorac 75% DF** is the most sensitive in broadcast or water-seeded rice applications. These symptoms are generally short-lived and rice usually recovers without a significant stand loss or other injury.

Water Management**Irrigation and Flood Water**

Product performance and weed control with **Sharda Quinclorac 75% DF** is highly dependent on proper use of irrigation, including effective flush irrigation to maintain moist soil conditions and timely establishment of permanent flood water. Soil treatments and residual activity from foliar applications require moist soil conditions for weeds to uptake the herbicide and be controlled. Therefore, keep the soil moist to maintain weed control. If the soil is permitted to dry and weeds emerge, flush irrigate the field to reactivate the residual activity of the herbicide while weeds are small (no greater than 1 inch in height). If needed, make additional **Sharda Quinclorac 75% DF** treatment, but limit total usage to 0.67 pound per acre per year. In water-seeded rice plantings and in pinpoint flood culture, drain all water from the rice field and ensure seedling rice has at least 2 leaves before applying **Sharda Quinclorac 75% DF**. Rice seedlings without 2 leaves may be injured. Flood water levees should be formed before making application of **Sharda Quinclorac 75% DF** for more consistent weed control. Residual weed control on the levee is dependent on moist soil conditions on the levee. If soil on the levee dries, erratic weed control may result. If a heavy rain occurs after making application of **Sharda Quinclorac 75% DF**, drain the excess water from the rice field to avoid possible rice injury.

RESISTANCE

This product contains the active ingredient quinclorac which is classified as a group 4 herbicide. When herbicides that affect the same biological site of action are used repeatedly over several years to control the same weed species in the same field, naturally-occurring resistant biotypes may survive a correctly applied herbicide treatment, propagate, and become dominant in that field. Adequate

control of these resistant weed biotypes cannot be expected. If weed control is unsatisfactory, it may be necessary to retreat the problem area using a product affecting a different site of action.

To better manage herbicide resistance through delaying the proliferation and possible dominance of herbicide resistant weed biotypes, it may be necessary to change cultural practices within and between crop seasons such as using a combination of tillage, retreatment, tank-mix partners and/or sequential herbicide applications that have a different site of action. Weed escapes that are allowed to go to seed will promote the spread of resistant biotypes.

It is advisable to keep accurate records of pesticides applied to individual fields to help obtain information on the spread and dispersal of resistant biotypes. Consult your agricultural dealer, consultant, applicator, and/or appropriate state agricultural extension service representative for specific alternative cultural practices or herbicide recommendations available in your area.

INTEGRATED PEST MANAGEMENT

Sharda Quinclorac 75% DF may be used as part of an Integrated Pest Management (IPM) program that can include biological, cultural, and genetic practices aimed at preventing economic pest damage. Application of this product should be based on IPM principles and practices including field scouting or other detection methods, correct target pest identification, population monitoring, and treating when target pest populations reach locally determined action thresholds. Consult your state cooperative extension service, professional consultants or other qualified authorities to determine appropriate action treatment threshold levels for treating specific pest/crop systems in your area.

SPRAY DRIFT MANAGEMENT

Avoiding spray drift at the application site is the responsibility of the applicator and grower. The interaction of many equipment- and weather-related factors determine the potential for spray drift. The applicator and grower are responsible for considering all these factors when making decisions.

The following drift management requirements must be followed to avoid off-target drift movement from aerial applications to agricultural field crops. These requirements **DO NOT** apply to forestry applications, public health uses or to applications using dry formulations:

1. Effectiveness is reduced if the distance of the outermost nozzles on the boom exceeds $\frac{3}{4}$ the length of the wingspan or rotor.
2. Nozzles should always point backward parallel with the air stream and should not be pointed downward more than 45 degrees.
3. Where states have more stringent regulations, they must be observed.
4. The applicator must be familiar with and take into account the information covered in the **AERIAL DRIFT REDUCTION ADVISORY INFORMATION**.

AERIAL DRIFT REDUCTION ADVISORY INFORMATION

Information on Droplet Size

The most effective way to reduce drift potential is to apply large droplets. The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. The presence of sensitive species nearby, the environmental conditions, and pest pressure may affect how an applicator balances drift control and coverage. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly, or under unfavorable environmental conditions (see **Wind, Temperature and Humidity and Temperature Inversions**).

Controlling Droplet Size

- **Volume** - Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- **Pressure** - **DO NOT** exceed the nozzle manufacturer's recommended pressures. For many nozzle types, lower pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.
- **Number of Nozzles** - Use the minimum number of nozzles that provide uniform coverage.
- **Nozzle Orientation** - Orienting nozzles so that the spray is released parallel to the airstream produces larger droplets than other orientations and is the recommended practice. Significant deflection from horizontal will reduce droplet size and increase drift potential.
- **Nozzle Type** - Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back produce the largest droplets and the lowest drift.

Boom Length

For some use patterns, reducing the effective boom length to less than $\frac{3}{4}$ of the wingspan or rotor length may further reduce drift without reducing swath width.

Application Height

DO NOT make applications at a height greater than 10 feet above the top of the largest plants, unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and wind.

Swath Adjustment

When applications are made with a crosswind, the swath will be displaced downwind. Therefore, on the up-and-downwind edges of the field, the applicator must compensate for this displacement by adjusting the path of the aircraft upwind. Swath adjustment distance should increase with increasing drift potential (higher wind, smaller drops, etc.).

Wind

Drift potential is lowest between wind speeds of 2 to 10 mph. However, many factors, including droplet size and equipment type, determine drift potential at any given speed. Application should be avoided below 2 mph due to variable wind directions and high inversion potential. **Note:** Local terrain can influence wind patterns. Every applicator must be familiar with local wind patterns and how they affect spray drift.

Temperature and Humidity

When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

Temperature Inversions

Because drift potential is high, **DO NOT** apply during a temperature inversion. Temperature inversions restrict vertical air mixing, which causes small, suspended droplets to remain in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified 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.

Sensitive Areas

Apply this product only when the potential for drift to adjacent sensitive areas (e.g., non-target crops, bodies of water, residential areas, known habitat for threatened or endangered species) is minimal (e.g., when wind is blowing away from the sensitive areas). Flagmen and loaders should avoid inhalation of spray mist and prolonged contact with skin.

APPLICATION INSTRUCTIONS

Sharda Quinclorac 75% DF can be applied to rice fields for the control of barnyardgrass, propanil-resistant barnyardgrass, other annual grasses, and certain broadleaf weeds.

Soil Application: Application of **Sharda Quinclorac 75% DF** may be made to the soil surface before, during, or after planting of dry-seeded rice. When application is made to the soil surface and activated by rainfall or irrigation, roots of susceptible grasses and broadleaf weeds uptake the herbicide resulting in commercially acceptable control before weed competition reduces rice productivity. Soil texture and clay content determine the proper use rate for best weed control with heavier soil textures and higher clay content requiring use rates at the higher end of the specified rate range. See the **Timing and Application Rate** table.

Foliar Application: Application of **Sharda Quinclorac 75% DF** may be made to the foliage of susceptible grasses and broadleaf weeds in dry-seeded and water-seeded rice. When application is made to weed foliage, leaves, and stems partially uptake the herbicide. It is essential that rice be flushed after a foliar application to maximize root absorption resulting in commercially acceptable weed control. Additionally, the herbicide reaching the soil surface moves into the soil with rainfall or irrigation providing residual weed control. In general, larger weeds require higher use rates for more complete control and smaller weeds are more effectively controlled with lower use rates. The use rates that are specified in the **Timing and Application Rate** table are for foliar treatments that will provide commercially acceptable control of susceptible weeds based on weed size or growth stage.

Timing and Application Rate

Weed Species	Foliar Applications (Rate/Acre)		Soil Applications (Rate/Acre)		
	Small weeds controlled and short-term soil residual	Larger weeds controlled and long-term soil residual	Light-textured sandy loams	Medium-textured silts, loams, silt loams, sandy clay loams	Heavy-textured such as silty clays, silty clay loams, clay loams, clays, gumbo, and buckshot
Annual Grasses					
Barnyardgrass Crabgrass, Large Junglerice Signalgrass, Broadleaf	0.40 - 0.50 lb. up to 2 inches	0.40 - 0.67 lb. up to 3 inches	0.33 - 0.44 lb.	0.50 lb.	0.67 lb.
Broadleaf Weeds					
Eclipta Jointvetches spp., Indian Northern Morningglory spp., Cypressvine Entireleaf Ivyleaf Palmleaf Pitted Purple Moonflower Tall (Common)	0.40 - 0.50 lb. up to 2 leaves	0.50 - 0.67 lb. up to 3 leaves	0.33 - 0.44 lb.	0.50 lb.	0.67 lb.

Sesbania, Hemp					
Alligatorweed (Partial Control)*	0.67 lb.	N/A	N/A	N/A	N/A
*Rice must be in at least the 2-leaf stage. For best control, establish permanent flood within 2 days after Sharda Quinclorac 75% DF application.					

Application Equipment: Whenever possible, apply spray mixtures using ground spray equipment. Ensure ground and aircraft spray equipment is properly calibrated and spray coverage is uniform. Always use spray nozzles and other equipment designed to reduce accidental spray drift. Always use drift control products and limit spray applications to periods when wind and other weather conditions **DO NOT** favor spray drift beyond the border of the rice field.

Ground Applications: Apply spray mixtures that contain **Sharda Quinclorac 75% DF** with ground spray equipment whenever possible. Refer to the **Use Restrictions** section under **Product Information**.

Pre-Plant/Pre-Emergence and Delayed Pre-Emergence

- **Water Volume:** Make application in 10 to 40 gallons of water per broadcast acre.
- **Spray Pressure:** Use 25 to 40 PSI.

Post-Emergence

- **Water Volume:** Make application in 10 to 20 gallons of water per broadcast acre.
- **Spray Pressure:** Use 25 to 40 PSI.

Aerial Applications: If treatment with ground spray equipment is not possible, application by aircraft is allowed, provided the aerial applicator understands the risks and assumes the liability associated with accidental spray drift from aerial application. Refer to the **Use Restrictions** section under **Product Information**.

- **Water Volume:** Make application in a minimum of 5 gallons of water per acre.
- **Spray Pressure:** Use a maximum 40 PSI.

MIXING INSTRUCTIONS

Mix **Sharda Quinclorac 75% DF** alone with water or liquid fertilizer and apply as a spray:

- Fill the spray tank $\frac{1}{2}$ - $\frac{3}{4}$ full of water.
- Add the specified amount of **Sharda Quinclorac 75% DF**.
- Add the remaining water.
- Maintain sufficient agitation during mixing and application to maintain a uniform coverage and treatment.

Additives

Adding 2 pints of crop oil concentrate (COC) per acre will improve leaf and stem uptake of the herbicide and enhance weed control (for post-emergence applications only).

Drift Control Products

Drift control products should always be added to the spray solution to affect spray droplet size and other characteristics, reducing the potential of off-target, accidental spray drift. When an adjuvant (or a specific adjuvant product, such as a drift control agent) is to be used with this product, the use of a Chemical Producers and Distributors Association (CPDA) certified adjuvant is recommended.

TANK MIXING

Tank Mix Applications

While **Sharda Quinclorac 75% DF** is effective in controlling a wide variety of annual grasses and broadleaf weeds, more effective weed control may be achieved or additional weeds may be controlled by tank mixing **Sharda Quinclorac 75% DF** with other herbicides labeled for weed control in rice. The table below lists some weeds where tank mixing is appropriate. 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.

All mixing equipment and all spray equipment should be thoroughly cleaned prior to and following mixing and making application of **Sharda Quinclorac 75% DF**.

Tank Mixtures:

- Fill the spray tank $\frac{3}{4}$ full with water, and begin agitation. Add products to the tank in the following order.
- Products in PVA bags. Add the bag to the tank and wait until all water-soluble PVA bags have fully dissolved and the product is evenly mixed in the spray tank before continuing.
- Water-dispersible products (such as wettable powders, suspension concentrates, or suspo-emulsions).
- Water-soluble products.
- Emulsifiable concentrates. If an inductor is used, rinse it thoroughly after the component has been added.
- Water-soluble additives. If an inductor is used, rinse it thoroughly after the component has been added.
- Fill the tank with the remaining water.
- Maintain constant agitation during application.

Tank Mix Applications		
Tank Mix Partners	Rates	Weeds
Sharda Quinclorac 75% DF + Basagran®	0.33 - 0.67 lb. + Refer to product label for use rate(s)	Cocklebur
Sharda Quinclorac 75% DF + Basagran	0.33 - 0.67 lb. + Refer to product label for use rate(s)	Dayflower
Sharda Quinclorac 75% DF + Blazer®	0.33 - 0.67 lb. + Refer to product label for use rate(s) ¹	Hemp Sesbania
Sharda Quinclorac 75% DF + Command® 3ME	0.33 - 0.67 lb. + Refer to product label for use rate(s)	
Sharda Quinclorac 75% DF + Bolero® 8 EC	0.33 - 0.67 lb. + Refer to product label for use rate(s) ²	Sprangletop
Sharda Quinclorac 75% DF + Prowl® H2O	0.33 - 0.67 lb. + Refer to product label for use rate(s) ³	
Sharda Quinclorac 75% DF + Command 3ME	0.33 - 0.67 lb. + Refer to product label for use rate(s)	
Sharda Quinclorac 75% DF + Basagran	0.33 - 0.67 lb. + Refer to product label for use rate(s)	Yellow Nutsedge
Sharda Quinclorac 75% DF + Command 3ME	0.33 - 0.67 lb. + Refer to product label for use rate(s)	Morningglory
Sharda Quinclorac 75% DF + Storm® herbicide	0.33 - 0.67 lb. + Refer to product label for use rate(s)	Heavy infestations of broadleaf weeds.
Sharda Quinclorac 75% DF + propanil	0.33 - 0.67 lb. + Refer to product label for use rate(s)	For weeds and grasses not controlled by Sharda Quinclorac 75% DF .
¹ Make application as a tank mix after rice has reached the 3-leaf stage.		
² Make application as a tank mix to the soil surface 1 to 5 days prior to rice emergence.		
³ Make application of this tank mix to soil surface after planting, before rice emergence and before sprangletop emergence.		

Weeds Controlled

Common Name	Scientific Name
Alligatorweed	<i>Alternanthera philoxeroides</i>
Barnyardgrass	<i>Echinochloa crus-galli</i>
Cocklebur	<i>Xanthium strumarium</i>
Crabgrass, Large	<i>Digitaria sanguinalis</i>
Dayflower spp.	<i>Commelina</i> spp.
Eclipta	<i>Eclipta alba</i>
Jointvetch spp.	
Indian	<i>Aeschynomene indica</i>
Northern	<i>Aeschynomene virginica</i>
Junglerice	<i>Echinochloa colonum</i>
Morningglory spp.	
Cypressvine	<i>Ipomoea quamoclit</i>
Entireleaf	<i>Ipomoea hederacea integriscula</i>
Ivyleaf	<i>Ipomoea hederacea</i>
Palmleaf	<i>Ipomoea wrightii</i>
Pitted	<i>Ipomoea lacunosa</i>
Purple Moonflower	<i>Ipomoea muricata</i>
Tall (Common)	<i>Ipomoea purpurea</i>
Nutsedge, Yellow	<i>Cyperus esculentus</i>
Sesbania, Hemp	<i>Sesbania exaltata</i>
Signalgrass, Broadleaf	<i>Brachiaria platyphylla</i>
Sprangletop	<i>Leptochloa</i> spp.

STORAGE AND DISPOSAL

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

Pesticide Storage: Store in a dry, well-ventilated area.

Pesticide Disposal: Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

Container Handling:

Non-Refillable Bags (All Weights): Non-refillable container. **DO NOT** reuse or refill this container. Completely empty bag into application equipment. Then offer for recycling, if available, or 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.

Non-Rigid Cardboard Containers: Non-refillable container. **DO NOT** reuse or refill this container. Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Dispose of liner in a sanitary landfill or by incineration if allowed by State and local authorities. If drum is contaminated and cannot be reused, dispose of in the same manner.

Non-Refillable Containers (50 lbs. or less): Non-refillable container. **DO NOT** reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container $\frac{1}{4}$ 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 offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Non-Refillable Containers (greater than 50 lbs.): Non-refillable container. **DO NOT** reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container $\frac{1}{4}$ 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 offer for recycling in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Refillable Container: Refillable container. Refill this container with quinclorac only. **DO NOT** reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather, presence of other materials or other influencing factors in the use of the product, which are beyond the control of Sharda USA LLC or Seller. To the extent consistent with applicable law, all such risks shall be assumed by Buyer and User, and Buyer and User agree to hold Sharda USA LLC and Seller harmless for any claims relating to such factors.

Sharda USA LLC warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of this product contrary to label instructions, or under conditions not reasonably foreseeable to or beyond the control of Seller or Sharda USA LLC and Buyer and User assume the risk of any such use. To the extent consistent with applicable law, Sharda USA LLC, MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

To the extent consistent with applicable law, neither Sharda USA LLC nor Seller shall be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF SHARDA USA LLC AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF SHARDA USA LLC OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

Sharda USA LLC and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitation of Warranty and Liability, which may not be modified except by written agreement signed by a duly authorized representative of Sharda USA LLC.

All trademarks are the property of their respective owners.

GROUP

4

HERBICIDE

[Sub-Label: Turf]

Sharda Quinclorac 75% DF

A dry flowable herbicide for use on postemergent residential and nonresidential turfgrasses.

ACTIVE INGREDIENT:

Quinclorac: 3,7-dichloro-8-quinolinecarboxylic acid

% By Weight

..... 75.0%

OTHER INGREDIENTS:

..... 25.0%

TOTAL:

..... 100.0%

KEEP OUT OF REACH OF CHILDREN WARNING/AVISO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.
(If you do not understand the label, find someone to explain it to you in detail.)

FIRST AID	
IF IN EYES	• Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after 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. • Have person sip a glass of water if able to swallow. • DO NOT induce vomiting unless told to by a poison control center or doctor. • DO NOT give anything by mouth to an unconscious person.
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 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 .	

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

See Panel for First Aid Instructions and booklet for complete Precautionary Statements and Directions For Use.

See label booklet for complete Precautionary Statements, Directions For Use, and Storage and Disposal.

See label booklet for additional Precautionary Statements, Directions For Use, and Storage and Disposal.

See label booklet for complete Directions For Use.]

EPA Reg. No.: 83529-75

EPA Est. No.: _____

Net Contents: _____

Manufactured for:

Sharda USA LLC 

7217 Lancaster Pike, Suite A
Hockessin, Delaware 19707

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
WARNING

Causes substantial but temporary eye injury. Harmful if swallowed or absorbed through skin. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. **DO NOT** get in eyes. Avoid contact with skin or clothing.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

- Protective eyewear
- Long-sleeved shirt and long pants
- Chemical-resistant gloves, such as barrier laminate, butyl rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, or nitrile rubber ≥ 14 mils, polyethylene, PVC ≥ 14 mils, or Viton ≥ 14 mils
- Shoes plus socks

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. **DO NOT** reuse them. 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

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands thoroughly with soap and water after handling and 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

Keep out of lakes, ponds and streams. **DO NOT** apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark, except as specified on this label for use in rice. **DO NOT** contaminate water when disposing of equipment washwater or rinsate.

GROUNDWATER ADVISORY

Quinclorac has properties and characteristics associated with chemicals detected in groundwater. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

DIRECTIONS FOR USE

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

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), notification to workers, and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

DO NOT enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:

- Protective eyewear
- Coveralls
- Waterproof gloves
- Shoes plus socks

PRODUCT INFORMATION

Sharda Quinclorac 75% DF may be applied postemergence to residential and nonresidential turfgrasses (refer to **Table 1**) for the control of many broadleaf and grass weeds. Examples of such sites include, but are not limited to: grounds or lawns around residential

and commercial establishments, multi-family dwellings, military and other institutions, parks, airports, roadsides, schools, picnic grounds, athletic fields, houses of worship, cemeteries, golf courses and sod farms.

Sharda Quinclorac 75% DF is absorbed by foliage and roots and translocated throughout the plant. The control symptoms exhibited by broadleaf weeds include leaf and stem curl or twisting, and chlorosis. Susceptible grasses demonstrate stunting, chlorosis, and gradual reddening followed by necrosis and death. Refer to Tables 1, 2 and 3 for turf-grass tolerance and susceptible weed species

APPLICATION INFORMATION

Apply Sharda Quinclorac 75% DF to actively growing weeds as postemergence broadcast or spot sprays using the rate, turf species and growth stage indicated in **Tables 1, 2 and 3**. **DO NOT** exceed the labeled application rate or fail to comply with use restrictions listed in '**General Restrictions and Limitations**'.

To achieve consistent weed control, use methylated seed oil. Refer to **Tables 1, 2 and 3** for rates.

Adding adjuvants may cause slight leaf burn, but new growth is normal, and turf vigor is not reduced. Avoid potential for leaf burn and turfgrass damage by delaying application when relative humidity and temperatures are high. Additional stress from low mowing heights may also increase the possibility of turf injury. Addition of chelated iron or sprayable soluble nitrogen fertilizer will reduce a slight yellowing that may occur on some turfgrass species.

Spot Applications

Postemergence spot applications may be made to susceptible weeds in turfgrass that are tolerant to **Sharda Quinclorac 75% DF** (see **Tables 1 and 2**). Apply 0.367 ounces (0.75 lb. a.i./A) of **Sharda Quinclorac 75% DF** per 1,000 square feet of treated area. Spray coverage should be uniform and complete. See **Table 5** for **spot spray mix instructions**.

Mowing Information

DO NOT mow 2 days before or after applying **Sharda Quinclorac 75% DF** to maximize weed control and minimize potential turf injury. **Clippings from the first three mowings should be left on the treated area.**

Irrigation and Rainfall

If soil moisture is not sufficient prior to **Sharda Quinclorac 75% DF** application, irrigation may improve weed control. For best results, **DO NOT** water or irrigate for 24 hours after application. If rainfall does not occur in 2 to 7 days after application, irrigation of at least 1/2 inch is required.

Extended Grass Control

To extend grass control, **Sharda Quinclorac 75% DF** can be tank mixed with pendimethalin to provide residual control of annual grasses. Consult the respective tank mix labels for additional weeds controlled.

Seeding/Overseeding/Sprigging

The use of **Sharda Quinclorac 75% DF** before or after seeding or over-seeding a turf area will not significantly interfere with the turfgrass seed germination and growth of those grass types identified as tolerant or moderately tolerant in **Table 1**. Consult **Table 4** for timing of applications concerning any seeding, overseeding or sprigging situation.

NOTE: Not all Bermudagrass seed have similar germination characteristics. Check germination vigor of your seeded hybrid Bermudagrass prior to use of **Sharda Quinclorac 75% DF** before, at, and 7 days after seeding.

ADDITION OF ADJUVANTS

Additives in Spray Mix to Achieve Control

Methylated seed oil is the preferred adjuvant for postemergence applications. **DO NOT** include additives when tank mixing with emulsifiable concentrate (EC) products as this may cause phytotoxicity. Consult your local Sharda USA LLC representative or distributor for instructions for your area. Other additives or adjuvants may be used, such as **DyneAmic®**, **Lesco Spreader Sticker®**, **LI 700®**, **Surf King® Spreader**, **Target Pro® Spreader**, or **Thoroughbred®**. However, under some environmental conditions, some of these products may cause phytotoxicity or less than optimal efficacy.

Methylated Seed Oil

- The methylated seed oil used as the adjuvant with **Sharda Quinclorac 75% DF** must meet all the following criteria: Nonphytotoxic
- Contain only EPA-exempt ingredients
- Provide good mixing quality in the jar test
- Successful in local experience

The exact composition of suitable products will vary; however, any methylated seed oil used should contain emulsifiers to provide good mixing quality.

MIXING INSTRUCTIONS FOR SHARDA QUINCLORAC 75% DF

Respective sections of this leaflet define **Sharda Quinclorac 75% DF** tank mix treatments. **If tank mixing with products in PVA bags, always allow water-soluble packets to dissolve before agitating.**

Ground-driven Sprayer

1. Begin with a clean spray tank. Fill tank $\frac{1}{2}$ to $\frac{3}{4}$ full with clean water.
2. **Sharda Quinclorac 75% DF** alone.
When using **Sharda Quinclorac 75% DF** alone, either premix (1 part product + 2 parts water) or slowly add **Sharda Quinclorac 75% DF** to the partially filled tank while agitating until completely dispersed. Fill the remainder of the tank with water.
3. **Sharda Quinclorac 75% DF** tank mixes
 - a. Wettable Powder Formulations
 1. When using **Sharda Quinclorac 75% DF** with a wettable powder formulation, add **Sharda Quinclorac 75% DF** to the partially filled tank while agitating.
 2. When **Sharda Quinclorac 75% DF** is properly mixed, add a slurry of the wettable powder (1 part WP + 2 parts water) slowly into the tank. Fill the remainder of the tank while agitating.
 - b. Flowable Formulations
 1. When using **Sharda Quinclorac 75% DF** with a flowable formulation, add **Sharda Quinclorac 75% DF** to the partially filled tank while agitating.
 2. When **Sharda Quinclorac 75% DF** is properly mixed, premix 1 part of the flowable with 2 parts water and add this diluted mixture slowly into the tank. Fill the remainder of the tank while agitating.
 - c. Emulsifiable Concentrate Formulations
 1. When using **Sharda Quinclorac 75% DF** with an emulsifiable concentrate formulation, add **Sharda Quinclorac 75% DF** to the partially filled tank while agitating.
 2. When **Sharda Quinclorac 75% DF** is properly mixed, premix 1 part of the emulsifiable concentrate with 2 parts water and add this diluted mixture slowly into the tank. Fill the remainder of the tank while agitating.
 - d. Dry Flowable (Water-dispersible Granule) Formulations
 1. When using **Sharda Quinclorac 75% DF** with a dry flowable formulation, add **Sharda Quinclorac 75% DF** to the partially filled tank while agitating.
 2. When **Sharda Quinclorac 75% DF** is properly mixed, premix 1 part of the dry flowable with 2 parts water and add this diluted mixture slowly into the tank. Fill the remainder of the tank while agitating.
4. **MAINTAIN CONTINUOUS AGITATION WHILE ADDING HERBICIDES AND UNTIL SPRAYING IS COMPLETED.** If the spray mixture is allowed to settle for any period of time, thorough agitation is essential to resuspend the mixture before spraying is resumed. Continue agitation while spraying.

Backpack Sprayer

Begin with a clean spray tank. Fill the spray tank $\frac{1}{2}$ full with clean water and add the required amount of **Sharda Quinclorac 75% DF** to the sprayer. Cap sprayer and agitate to ensure mixing. Uncap sprayer and finish filling tank to desired level. Cap sprayer and agitate once again. During application, it is desirable to agitate the mixture on occasion to ensure mixing. If the mixture is allowed to settle for any period of time, thorough agitation is essential to resuspend the mixture before spraying is resumed.

Liquid Fertilizers

Prior to mixing, small quantities should always be tested using a simple jar test. Add the required amount of **Sharda Quinclorac 75% DF** to $\frac{1}{2}$ -filled tank while agitating; then add the fertilizer product. Complete filling spray tank to desired level.

SPRAYING INSTRUCTIONS FOR SHARDA QUINCLORAC 75% DF

Apply with properly calibrated ground equipment in sufficient water per acre to provide uniform spray distribution (at least 20 gallons of water per acre or at least 0.5 gallons per 1,000 sq. ft.). Use low pressure sprayers at 20 to 40 PSI.

Maintain continuous agitation during spraying with good mechanical or bypass agitation. Nozzle screens must be no finer than 50 mesh (100 mesh is finer than 50 mesh). Check sprayer routinely to determine proper calibration. Flat fan, flood or cone nozzles may be used. Nozzles should be arranged to obtain uniform coverage for turf and weeds to be controlled. Boom height, nozzle selection, and pressure should be adjusted to provide uniform coverage and minimize spray drift.

Avoid overlaps that will increase rates above those labeled for use.

Avoid application when winds may cause drift.

Procedure For Cleaning Spray Equipment Clean application equipment thoroughly using a strong detergent or commercial sprayer cleaner according to the manufacturer's directions before and after applying this product.

COMPATIBILITY TEST FOR MIX COMPONENTS

Add components in the following sequence using 2 teaspoons for each pound or 1 teaspoon for each pint of labeled rate per acre.

- 1) **Water.** For 20 gallons per acre spray volume, use 3.3 cups (800 ml) of water. For other spray volumes, adjust rates accordingly. Use only water from the intended source at the source temperature.
- 2) **Products in PVA bags.** Cut an opening in the water-soluble PVA bag just large enough to use a teaspoon for measuring purposes. Use the opened water-soluble PVA bag first when preparing spray solution. Boron-containing fertilizers can be incompatible with PVA material. Include PVA material if a boron fertilizer is intended to be used. Cap the jar and invert 10 cycles.
- 3) **Water-dispersible products** (such as **Sharda Quinclorac 75% DF**, or dry flowables, wettable powders, suspension concentrates, or suspo-emulsions). Cap the jar and invert 10 cycles.
- 4) **Water-soluble products** (such as Bentazon) Cap the jar and invert 10 cycles.
- 5) **Emulsifiable concentrates** (methylated seed oil). Cap the jar and invert 10 cycles.
- 6) **Water-soluble additives.** Cap the jar and invert 10 cycles.
- 7) Let the solution stand for 15 minutes.
- 8) **Evaluate** the solution for uniformity and stability. The spray solution should not have free oil on the surface nor thick (clabbered) texture. For WG or WP products, a fine precipitate that is easily resuspended is normal; large nondispersible particles (>300 microns) that precipitate on standing are a sign of tank mix incompatibility. **DO NOT** use any spray solution that could clog spray nozzles.

GENERAL RESTRICTIONS AND LIMITATIONS

- **DO NOT** apply more than 2 pounds of **Sharda Quinclorac 75% DF** per acre (or 0.73 oz. per 1,000 sq. ft.) in one year (1.5 lbs. a.i. per acre per year).
- **DO NOT** apply to golf course collars or greens.
- **DO NOT** make applications of **Sharda Quinclorac 75% DF** to drought-stressed turfgrass.
- **DO NOT** apply to fine fescue unless it's part of seed blend
- **DO NOT** apply to Bahiagrass, carpetgrass, St. Augustinegrass, centipedegrass, dichondra, or lawns or turf where desirable clovers are present.
- **DO NOT** apply within 4 weeks after seedling emergence of Kentucky bluegrass, creeping bentgrass, fine fescue blends and perennial ryegrass.
- **DO NOT** apply to exposed feeder roots of trees or ornamentals. Be particularly careful within the drip line of trees and other ornamental species.
- **DO NOT** apply into any ornamental bed.
- **DO NOT use clippings as mulch or compost around flowers, ornamentals, trees, or in vegetable gardens.**
- **DO NOT** plant eggplants or tobacco within 12 months on fields treated with **Sharda Quinclorac 75% DF**.
- **DO NOT** plant tomatoes or carrots within 24 months on fields treated with **Sharda Quinclorac 75% DF**.
- Apply when wind speed is less than 10 mph or drift may cause damage or death of nontarget area vegetation. **DO NOT** apply when conditions favor drift from target area.
- Use a lawn-type sprayer with coarse spray because wind drift is less likely.
- Avoid mist and spray onto vegetables, flowers, ornamentals, shrubs, trees, and other desirable plants, **especially plants belonging to the Solanaceae family, such as tomatoes, eggplants, and bell peppers.**
- **DO NOT** pour spray solutions near these plants.
- **DO NOT** apply through any type of irrigation system.
- **DO NOT** use to formulate or reformulate any other pesticide product that is not registered by EPA.
- For best results, weeds should not be under stress from lack of water, excessive water, low fertility, mowing shock, excessive hot or cold temperatures, or injury from other herbicide applications.

TURFGRASS TANK MIXES

Read and follow the applicable restrictions and limitations and **Directions For Use** on all products involved in tank mixing. The most restrictive labeling applies to any tank mix. To increase spectrum of control of broadleaf weed species, a tank mix with 2,4-D, triclopyr, MCPA, MCPP, 2,4-D, MCPP, + Dicamba, or other broadleaf herbicide can be used. For extended residual control, apply **Sharda**

Quinclorac 75% DF with Pendimethalin. For sedge control, applications of **Sharda Quinclorac 75% DF** with Bentazon, Imazaquin, or MSMA can be made.

Combinations with MSMA will aid in control of certain grassy weeds, such as Bahiagrass or kikuyugrass. Consult tolerant turfgrass species on all labels. Separate applications should be made if all target weeds are not at the correct growth stage for treatment at the same time.

Physical incompatibility, reduced weed control, or turf injury may result from mixing **Sharda Quinclorac 75% DF** with other pesticides (fungicides, herbicides, insecticides, or miticides), additives, or fertilizers.

Before tank mixing, a simple jar test is required to insure compatibility of herbicides or other pesticides and/or additives. Refer to manufacturers labels for specific use directions, precautions, and limitations before tank mixing with **Sharda Quinclorac 75% DF**; follow those that are most restrictive

Table 1. Turf Tolerance (Established)

HIGHLY TOLERANT	MODERATELY TOLERANT	SUSCEPTIBLE
Bermudagrass, common ¹	Bentgrass, creeping ¹	Bahiagrass
Bluegrass, annual	Bermudagrass, hybrid ¹	Bentgrass, colonial
Bluegrass, Kentucky	Bluegrass, rough (<i>Poa trivialis</i>)	Bentgrass, seaside
Buffalograss	Fescue, Chewing's	Centipedegrass
Fescue, tall	Fescue, fine ²	Dichondra
Ryegrass, annual	Fescue, hard	St. Augustinegrass
Ryegrass, perennial	Fescue, red	
Zoysiagrass	Paspalum, seashore	
¹ Yellowing that occurs on these species can be reduced by the addition of chelated iron or sprayable soluble nitrogen fertilizer (see Application Information and Addition of Adjuvants sections). ² Apply Sharda Quinclorac 75% DF to fine fescue only when it is part of a blend. DO NOT use on golf course greens and collars. Consult Table 4. Seeding/Overseeding/Sprigging Timing Chart for this situation.		

Table 2. Sharda Quinclorac 75% DF Application of Established Creeping Bentgrass

TURFGRASS SPECIES	APPLICATION RATE/TIMING	ADDITIVE RATE
Bentgrass, creeping ^{1,2}	Sharda Quinclorac 75% DF must be applied in 2 to 3 split applications at 0.123 to 0.245 oz. (0.25 lb. a.i./A to 0.50 lb. a.i./A) per 1,000 sq. ft. (not to exceed 2 lbs. of product per acre per season) [1.5 lbs. a.i./A/year]. Sequential application(s) should be timed 21 days apart.	Use methylated seed oil at 0.55 oz. per 1,000 sq. ft. (1.5 pints per acre).
Bentgrass, creeping ^{1,3}	Sharda Quinclorac 75% DF must be applied in 2 to 3 split applications at 0.162 to 0.245 oz. (0.33 lb. a.i./A to 0.50 lb. a.i./A) per 1,000 sq. ft. (not to exceed 2 lbs. of product per acre per season) [1.5 lbs. a.i./A/year]. Sequential application(s) should be timed 21 days apart.	Use methylated seed oil at 0.55 oz. per 1,000 sq. ft. (1.5 pints per acre).

¹ Yellowing that occurs on these species can be reduced by the addition of chelated iron or sprayable soluble nitrogen fertilizer (see **Application Information** and **Addition of Adjuvants** sections).

² Not for use at this rate range in California.

³ This rate range for use only in California.

DO NOT use on golf course greens and collars.

Consult Table 4. Seeding/Overseeding/Sprigging Timing Chart for this situation.

Table 3: Application Rates and Timing for Postemergence Weed Control in Turf

WEED SPECIES		SHARDA QUINCLORAC 75% DF	ADDITIVE RATE
GRASSES CONTROLLED		BROADCAST APPLICATIONS: 1 pound of product per acre or 0.367 oz. per 1,000 sq ft (0.75 lb. a.i./A)	APPLY: 1.5 pints per acre (0.55 oz. per 1,000 sq. ft.) methylated seed oil
COMMON NAME	SCIENTIFIC NAME		
Barnyardgrass	<i>Echinochloa crusgalli</i>		
Crabgrass, large ¹	<i>Digitaria sanguinalis</i>		
Crabgrass, smooth ¹	<i>Digitaria ischaemum</i>		
Foxtail, giant ¹	<i>Setaria faberi</i>		
Foxtail, green ¹	<i>Setaria viridis</i>		
Foxtail, yellow ¹	<i>Setaria glauca</i>		
Kikuyugrass ^{2,3}	<i>Pennisetum clandestinum</i>		
Signalgrass, broadleaf ¹	<i>Brachiaria platyphylla</i>		
Torpedograss ³	<i>Panicum repens</i>		
BROADLEAF WEEDS CONTROLLED		SPOT APPLICATIONS: Apply 0.367 oz. of Sharda Quinclorac 75% DF per 1,000 sq. ft. (0.75 lb. a.i./A) of treated area. Refer to footnotes in Tables 2 and 3 for specific turfgrass or weed instructions.	
COMMON NAME	SCIENTIFIC NAME		
Bindweed, field	<i>Convolvulus arvensis</i>		
Clover, hop	<i>Trifolium aureum Polich</i>		
Clover, red	<i>Trifolium pratense</i>		
Clover, white	<i>Trifolium repens</i>		
Daisy, English ^{2,5}	<i>Bellis perenne</i>		
Dandelion, common ²	<i>Taraxacum officinale</i>		
Dollarweed	<i>Hydrocotyle umbellata</i>		
Geranium, Carolina	<i>Geranium carolinum</i>		
Medic, black	<i>Medicago lupulina</i>		
Morningglory spp.	<i>Ipomea sp.</i>		
Speedwell, common	<i>Veronica officinalis</i>		
Speedwell, slender	<i>Veronica filiformis</i>		
Speedwell, thymeleaf	<i>Veronica serpyllifolia</i>		
Violet, wild	<i>Viola sp.</i>		

¹ Under certain conditions, application of **Sharda Quinclorac 75% DF** made to annual grasses at 2 to 4 tiller may not provide complete control. A

sequential application will be required for grass control in these situations. Optimum control is achieved when applications of **Sharda Quinclorac 75% DF** + methylated seed oil are applied either before second tiller or as weed grasses mature.

² Tank mix partner or sequential application required.

³ Make 3 sequential applications of 0.245 oz. (0.50 lb. a.i./A) of **Sharda Quinclorac 75% DF** per 1,000 sq, ft, at 14- to 21-day intervals.

⁴ Biotypes of large and smooth crabgrass in California have shown varied response to **Sharda Quinclorac 75% DF**. If control failure occurs following

a full or split application, **DO NOT** reapply **Sharda Quinclorac 75% DF**. Change to a herbicide with a different mode of action.

⁵ NOT FOR USE to control this weed in California.

Table 4: Seeding /Overseeding/Sprigging Timing Chart

VARIETY	BEFORE SEEDING	AT SEEDING	7 DAYS AFTER EMERGENCE	14 DAYS AFTER EMERGENCE	28 DAYS AFTER EMERGENCE
Annual bluegrass	OK	OK	OK	OK	OK
Annual ryegrass	OK	OK	OK	OK	OK
Buffalograss	OK	OK	OK	OK	OK
Common Bermudagrass	OK	OK	OK	OK	OK
Creeping bentgrass	OK	NO	NO	NO	OK
Fine fescue (in blend)	OK	NO	NO	NO	OK
Hybrid Bermudagrass (for sprigging see footnote 3)	OK	OK	OK	OK	OK
Kentucky bluegrass	OK	NO	NO	NO	OK
Perennial ryegrass	OK	OK	NO	NO	OK
Seashore paspalum ³)	NO	NO	NO	OK	OK
Tall fescue	OK	OK	OK	OK	OK
Zoysiagrass ³ (for sprigging see footnote 3)	OK	OK	OK	OK	OK

¹ **NOTE:** No adjuvant or additive should be used when **Sharda Quinclorac 75% DF** applications are made on newly emerged turf seedlings until 28 days after emergence; with the exception of seashore paspalum, a **Sharda Quinclorac 75% DF** application rate of

0.367 oz./1,000 sq. ft. (0.75 lb. a.i./A) can be made to all other turfgrass species in above **Table 4**.

² **Sharda Quinclorac 75% DF** can be applied-7 days or greater prior to seeding.

³ **Sharda Quinclorac 75% DF** can be used anytime prior to, at, or after sprigging as indicated by turfgrass species in above **Table 4**.

⁴ 0.18 oz. to 0.367 oz./1,000 sq. ft. (0.37 to 0.75 lb. a.i./A) application can be made at times indicated in above **Table 4**.

Application of **Sharda Quinclorac 75% DF** should be timed around the seeding operations using the above chart as a reference point.

Table 5: Spot Spraying with Sharda Quinclorac 75% DF

SPRAY MIX VOLUME ¹ (GALLONS)	SHARDA QUINCLORAC 75% DF PRODUCT IN MIX (TABLESPOONS)	MSO ADJUVANT IN MIX (TABLESPOONS)
1	1	2
2	2	4
3	3	6

¹ Apply at the rate of 1 gallon per 1,000 sq. ft.

1 tablespoon= 0.367 oz. (0.75 lb. a.i./A) of **Sharda Quinclorac 75% DF** product.

NOTES: For consistent results, make **Sharda Quinclorac 75% DF** application to newly germinated 1- to 2-leaf crabgrass, to 1-tiller crabgrass and when crabgrass has matured to 5 tillers or greater.*

* Under certain conditions, applications of **Sharda Quinclorac 75% DF** made to annual grasses 2 to 4 tiller may not provide complete control. A sequential application will be required for grass control in these _situations.

STORAGE AND DISPOSAL

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

Pesticide Storage: Store in a dry, well-ventilated area.

Pesticide Disposal: Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

Container Handling:

Non-Refillable Bags (All Weights): Non-refillable container. **DO NOT** reuse or refill this container. Completely empty bag into application equipment. Then offer for recycling, if available, or 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.

Non-Rigid Cardboard Containers: Non-refillable container. **DO NOT** reuse or refill this container. Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Dispose of liner in a sanitary landfill or by incineration if allowed by State and local authorities. If drum is contaminated and cannot be reused, dispose of in the same manner.

Non-Refillable Containers (50 lbs. or less): Non-refillable container. **DO NOT** reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container $\frac{1}{4}$ 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 offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Non-Refillable Containers (greater than 50 lbs.): Non-refillable container. **DO NOT** reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container $\frac{1}{4}$ 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 offer for recycling in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Refillable Container: Refillable container. Refill this container with quinclorac only. **DO NOT** reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

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