



OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

WASHINGTON, D.C. 20460

June 4, 2024

Tasha Lott
Product Registration Manager
Prime Source, a Division of Albaugh, LLC
1525 NE 36th Street
Ankeny, IA 50021

Subject: Notification per PRN 98-10 – Remove liquid units of measure
Product Name: QUINCLORAC 75DF SELECT
EPA Registration Number: 89442-25
Application Date: 3/2/2022
Case Number: 476055

Dear Tasha Lott:

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 label submitted with the application has been stamped "NOTIFICATION" and placed in our records.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) lists examples of statements 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 Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

If you have any questions, please contact Sarah Meadows at 202-566-2828 or at meadows.sarah@epa.gov.

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Case No. 476055

Sincerely,

A handwritten signature in black ink, appearing to read "Emily Schmid". The signature is fluid and cursive. Below the signature, the letters "FDR" are printed in a small, sans-serif font.

Emily Schmid, Product Manager 25

Herbicide Branch

Registration Division (7505P)

Office of Pesticide Programs

NOTIFICATION

89442-25

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:

6/4/2024

QUINCLORAC	GROUP	4	HERBICIDE
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Quinclorac 75DF Select

HERBICIDE

ACTIVE INGREDIENT:

Quinclorac: 3,7-dichloro-8-quinolinecarboxylic acid 75.0 %

OTHER INGREDIENTS: 25.0 %

TOTAL: 100.0 %

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 ON SKIN:	<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 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 first 5 minutes, then continue rinsing eye.• 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.

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. 89442-25

Est. No. xxxxx-xx-xxx

NET CONTENTS: _____

Manufactured For:

Prime Source, LLC

P.O. Box 250

10025 Hwy. 264 Alternate

Middlesex, NC 27557

PRECAUTIONARY STATEMENTS**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

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

PERSONAL PROTECTIVE EQUIPMENT (PPE)**Applicators and other handlers must wear:**

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes 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

When handlers use closed systems or enclosed cabs 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:**

- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove clothing/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 chemical has properties and characteristics associated with chemicals detected in groundwater. The use of this chemical where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

Keep out of lakes, ponds, and streams. Do not apply directly to water, areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment or disposal of rinsate.

PHYSICAL CHEMICAL HAZARDS

Do not mix or allow coming in contact with oxidizing agent. Hazardous chemical reaction may occur.

DIRECTIONS FOR USE

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

All applicable directions, restrictions and precautions must be followed. This labeling must be in the possession of the user at time of application.

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 specified 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) 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, and water, is:

- Coveralls
- Waterproof gloves
- Shoes plus socks

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, nurseries, or greenhouses.

Do not enter or allow others to enter the treated area until sprays have dried.

PRODUCT INFORMATION

Quinclorac 75DF Select may be applied post-emergence to residential and nonresidential turfgrasses (Refer to Table 1) for the control of many broadleaf and grass weeds. Examples of such sites include grounds or lawns around residential and commercial establishments, multi-family dwellings, military and other institutions, parks, airports, road-sides, schools, picnic grounds, athletic fields, houses of worship, cemeteries, golf courses, and sod farms.

Mode of Action

Quinclorac 75DF Select is a group 4 herbicide and is an auxin agonist and is classified as a quinoline carboxylic acid. It 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 turfgrass tolerance and susceptible weed species.

Resistance Management

Some pests are known to develop resistance to Group 4 herbicide herbicides that have been used repeatedly. Herbicide resistance is defined as the inherited ability of a plant to survive and reproduce following exposure to a dose of herbicide normally lethal to the wild type. In a plant, resistance may be naturally occurring or induced by such techniques as genetic engineering or selection of variants produced by tissue culture or mutagenesis. Any weed population may contain or develop plants that are naturally resistant to Quinclorac 75DF Select and other Group 4 herbicides. Weed species with acquired resistance to Group 4 herbicides may eventually dominate the weed population if Group 4 herbicides are used repeatedly in the same field or in successive years as the primary method of control for targeted species. This may result in partial or total loss of control of those species by Quinclorac 75DF Select or other Group 4 herbicides.

To delay herbicide resistance, consider the below best practices for resistance management:

- Plant into weed-free fields and keep fields as weed-free as possible.
- To the extent possible, use a diversified approach toward weed management. Whenever possible incorporate multiple weed-control practices such as mechanical cultivation, biological management practices, and crop rotation.
- Fields with difficult to control weeds should be rotated to crops that allow the use of herbicides with alternative mechanisms of action or different management practices.
- To the extent possible, do not allow weed escapes to produce seeds, roots or tubers. Manage weed seeds at harvest and post-harvest to prevent a buildup of the weed seed-bank.
- Prevent field-to-field and within-field movement of weed seed or vegetative propagules. Thoroughly clean plant residues from equipment before leaving fields.
- Prevent an influx of weeds into the field by managing field borders.
- Identify weeds present in the field through scouting and field history and understand their biology. The weed-control program should consider all of the weeds present.
- Difficult to control weeds may require sequential applications of herbicides with differing mechanisms of action.
- Apply this herbicide at the correct timing and rate needed to control the most difficult weed in the field.
- Use a broad-spectrum soil-applied herbicide with a mechanism of action that differs from this product as a foundation in a weed-control program. Do not use more than two applications of this or any other herbicide with the same mechanism of action within a single growing season unless mixed with an herbicide with another mechanism of action with an overlapping spectrum for the difficult-to-control weeds.
- If resistance is suspected, treat weed escapes with an herbicide with a different MOA or use non-chemical methods to remove escapes.
- Monitor treated weed populations for loss of field efficacy.
- Scout field(s) before and after application.
- Report lack of performance to registrant or their representative.

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.

Contact your local sales representative, extension agent, or certified crop advisors to find out if suspected resistant weeds to this MOA have been found in your region. If resistant biotypes of target weeds have been reported, use the application rates of this product specified for your local conditions. Tank mix products so that there are multiple effective mechanisms of action for each target weed.

APPLICATION INFORMATION

Apply Quinclorac 75DF Select to actively growing weeds as post-emergence broadcast or spot sprays using the rate, turf species and growth stage indicated in Tables 1, 2, and 3. Do not exceed the application rate listed. Follow restrictions listed under the Restrictions section.

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

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

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.

Spot Applications:**For Use in New York by Spot Treatment Only.**

Spot Treatment: Spray individual weeds only. Adjust the sprayer to coarse spray to minimize wind drift. Apply to the center of the weed and spray to lightly cover.

Post-emergence spot applications may be made to susceptible weeds in turfgrass that is tolerant to Quinclorac 75DF Select (see Tables 1 and 2). Apply 0.275 oz. (8.1 mL) of Quinclorac 75DF Select per 1,000 sq. ft. of treated area (equivalent to 0.75 pound per acre). Spray coverage should be uniform and complete.

Mowing Information:

Do not mow 2 days before or after applying Quinclorac 75DF Select 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 Quinclorac 75DF Select 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 with at least one-half inch of water.

Extended Grass Control:

To extend grass control Quinclorac 75DF Select can be tank-mixed with pendimethalin-containing herbicides to provide residual control of annual grasses. Consult the respective tank-mix labels for additional weeds controlled. It is the pesticide user's responsibility to ensure that all products in the listed mixtures are registered for the intended use. Read and follow the applicable restrictions 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.

Seeding/Overseeding/Sprigging:

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

ADDITION OF ADJUVANTS**Additives in Spray Mix to Achieve Control:**

Methylated seed oil is the preferred adjuvant for post-emergence applications. Do not include additives when tank mixing with EC (Emulsifiable Concentrate) products as this may cause phytotoxicity. Consult your local Prime Source, LLC representative or distributor for instructions for your area. Other additives or adjuvants may be used such as Dyne-Amic, Lesco Spreader Sticker LI-700, Surf King Spreader, Target Pro Spreader, or Thoroughbred. However, under some environmental conditions, some of these products may cause phototoxicity or less than optimal efficacy.

Methylated Seed Oil Recommended:

If methylated seed oil is used as the adjuvant with Quinclorac 75DF Select, the following criteria must be met:

- be nonphytotoxic,
- contain only EPA-exempt ingredients,
- provide good mixing quality in the jar test, and
- be 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.

MIXING INSTRUCTIONS

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 one-half to three-quarters full with clean water.
2. Quinclorac 75DF Select Alone
When using Quinclorac 75DF Select alone, either premix (1 part product + 2 parts water) or slowly add Quinclorac 75DF Select to the partially filled tank while agitating until completely dispersed. Fill the remainder of the tank with water.
3. Quinclorac 75DF Select tank mixes
 - a. **Wettable Powder Formulations**
 1. When using Quinclorac 75DF Select with a wettable powder formulation, add Quinclorac 75DF Select to the partially filled tank while agitating.
 2. When Quinclorac 75DF Select 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 Quinclorac 75DF Select with a flowable formulation, add Quinclorac 75DF Select to the partially-filled tank while agitating.
 2. When Quinclorac 75DF Select is properly mixed, premix one part of the flowable with two 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 Quinclorac 75DF Select with an emulsifiable concentrate formulation, add Quinclorac 75DF Select to the partially-filled tank while agitating.
 2. When Quinclorac 75DF Select is properly mixed, premix one part of the emulsifiable concentrate with two 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 Quinclorac 75DF Select with a dry flowable formulation, add Quinclorac 75DF Select to the partially-filled tank while agitating.
 2. When Quinclorac 75DF Select is properly mixed, premix one part of the dry flowable with two 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 1/2 full with clean water and add the required amount of Quinclorac 75DF Select 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 Quinclorac 75DF Select to half-filled tank while agitating then add the fertilizer product. Complete filling spray tank to desired level.

SPRAYING INSTRUCTIONS

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 gallon 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.

Do not allow overlaps that will increase rates above those directed.

SPRAY DRIFT MANAGEMENT

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

Use a standard herbicide boom sprayer that provides uniform and accurate application. For optimum spray distribution and thorough coverage, use flat-fan nozzles.

- DO NOT apply by air.
- Apply as a medium or coarser spray (ASABE standard S-572.1).
- Do not apply when conditions favor drift from target area.
- DO NOT release spray at a height greater than 30 inches above the ground.
- DO NOT apply when wind speeds are greater than 10 mph at the application site.
- DO NOT apply when conditions favor drift from target area.

DRIFT REDUCTION ADVISORY INFORMATION

IMPORTANCE OF 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. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly, or under unfavorable environmental conditions.

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 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.

APPLICATION HEIGHT

Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and wind. DO NOT release spray at a height greater than 30 inches above the ground.

WIND

Drift potential is lowest between winds speeds of 2-10 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 direction and high inversion potential.

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.

SENSITIVE AREAS

The pesticide should only be applied when the potential for drift to adjacent sensitive areas (e.g. bodies of water, known habitat for threatened or endangered species, non-target crops) is minimal (e.g. when wind is blowing away from the sensitive areas).

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 Quinclorac 75DF Select) (dry flowables, wettable powders, suspension concentrates, or suspo-emulsions) - Cap the jar and invert 10 cycles.
4. **Water-soluble products:** (such as Basagran T/O) - 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 non-dispersible 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.

RESTRICTIONS

- DO NOT apply more than 0.75 pound of Quinclorac 75DF Select per acre or 0.275 ounce (8.1 mL) per 1,000 square feet per application.
- DO NOT apply more than 2 lbs. of Quinclorac 75DF Select per acre or 0.73 oz. (21.6 mL) per 1,000 sq. ft. in one year.
- DO NOT apply to golf course collars or greens.
- DO NOT apply to fine fescue unless it is part of a seed blend.
- DO NOT apply by air.
- DO NOT release spray at a height greater than 30 inches above the ground.
- Quinclorac 75DF Select must be applied as a medium or coarser spray droplet size, as according to ASABE standard S-572.1.
- 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 prior to and within 2 weeks after seeding seashore paspalum.
- 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 apply when wind speeds are greater than 10 mph at the application site as drift may cause damage or death of non-target area vegetation.
- DO NOT apply when conditions favor drift from target area.
- DO NOT allow mist and spray to come in contact with 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 apply through any type of irrigation system.
- DO NOT apply in New York State, except by spot treatment only.

TURFGRASS TANK-MIXES

It is the pesticide user's responsibility to ensure that all products in the listed mixtures 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. To increase spectrum of control of broadleaf weed species, a tank mix with 2,4-D, triclopyr, MCPA, MCPP, Dicamba, or other broadleaf herbicide can be used. For extended residual control, apply Quinclorac 75DF Select with pendamethalin herbicides. For sedge control, apply Quinclorac 75DF Select with imazaquin, sodium bentazon, or MSMA herbicides.

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 must be made if all target weeds are not at the correct growth state for treatment at the same time.

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

Before tank-mixing, a simple jar test is required to ensure compatibility of herbicides or other pesticide and/or additives. Refer to manufacturer's labels for specific use directions, precautions, and limitations before tank mixing with Quinclorac 75DF Select and 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	

¹Yellowing 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**).

²Apply Quinclorac 75DF Select to fine fescue only when it is part of a blend.

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

RESTRICTION: Do not use on golf course greens and collars.

Table 2. Quinclorac 75DF Select Application to Established Creeping Bentgrass

Turfgrass Species	Application Rate/Timing	Additive Rate
Bentgrass, Creeping ¹	Quinclorac 75DF Select must be applied in 2 - 3 split applications at 0.162 to 0.245 oz. (4.7 to 7.2 mL) per 1,000 sq. ft. Do not exceed a total of 0.73 ounce (21.8 mL) of product per 1,000 sq. ft. per year. Make sequential application(s) at least 21 days apart.	Use methylated seed oil at 0.55 Fl. Oz. per 1,000 sq. ft. (1.5 pints per acre).

¹Yellowing 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**).

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

RESTRICTION: Do not use on golf course greens and collars.

Table 3. Application Rates and Timing for Post-Emergence Weed Control in Turf

Weed Species		Quinclorac 75DF Select Rate	Additive Rate
Grasses Controlled		Broadcast Applications: 0.75 lb. of product per acre or 0.275 oz. (8.1 mL) per 1,000 sq. ft. Spot Applications: Apply 0.275 oz. (8.1 mL) of Quinclorac 75DF Select per 1,000 sq. ft. of treated area. Refer to footnotes in Tables 2 and 3 for specific turfgrass or weed instructions.	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 ^{1,4}	<i>Digitaria sanguinalis</i>		
Crabgrass, Smooth ^{1,4}	<i>Digitaria ischaemum</i>		
Foxtails, 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			
Common Name	Scientific Name		
Bindweed, Field	<i>Convolvulus arvensis</i>		
Clover, Hop	<i>Trifolium aureum</i> Pollich		
Clover, Red	<i>Trifolium pratense</i>		
Clover, White	<i>Trifolium repens</i>		
Daisy, English ^{2,5}	<i>Bellis perennis</i>		
Dandelion, Common ²	<i>Taraxacum officinale</i>		
Dollarweed	<i>Hydrocotyle umbellata</i>		
Geranium, Carolina	<i>Geranium carolinianum</i>		
Medic, Black	<i>Medicago lupulina</i>		
Morningglory spp.	<i>Ipomoea</i> sp.		
Speedwell, Common	<i>Veronica officinalis</i>		
Speedwell, Slender	<i>Veronica filiformis</i>		
Speedwell, Thymeleaf	<i>Veronica serpyllifolia</i>		
Violet, Wild	<i>Viola</i> sp.		

¹Under certain conditions applications of Quinclorac 75DF Select made to annual grasses at 2 - 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 Quinclorac 75DF Select + methylated seed oil is applied either before second tiller or as weed grasses mature.

²Tank mix partner or sequential application required.

³Make 3 sequential applications of 0.245 oz. (~~7.2 mL~~) of Quinclorac 75DF Select per 1,000 sq. ft. at 14- to 21-day intervals.

⁴Biotypes of large and smooth crabgrass in California have shown varied response to Quinclorac 75DF Select. If control failure occurs following the application of a full or split application rates, do not reapply Quinclorac 75DF Select. Change to a herbicide with a different mode of action.

⁵**RESTRICTION:** NOT FOR USE to control this weed in California.

Table 4. Seeding/Overseeding/Sprigging Timing Chart¹

Variety	Before Seeding ²	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 Bermuda ³	OK	OK	OK	OK	OK
Creeping Bentgrass	OK	NO	NO	NO	OK

Fine Fescue (in blend)	OK	NO	NO	NO	OK
Hybrid Bermuda ³	OK	OK	OK	OK	OK
Kentucky Bluegrass	OK	NO	NO	NO	OK
Perennial Ryegrass	OK	OK	NO	NO	OK
Seashore Paspalum ^{3,4}	NO	NO	NO	OK	OK
Tall Fescue	OK	OK	OK	OK	OK
Zoysiagrass ³	OK	OK	OK	OK	OK

¹ **RESTRICTION:** Do not use adjuvant or additive when Quinclorac 75DF Select applications are made on newly emerged turf seedlings until 28 days after emergence; with the exception of seashore paspalum, a Quinclorac 75DF Select application rate of 0.275 oz./1,000 sq. ft. (0.75 lb. a.i./A) can be made to all other turfgrass species in above Table 4.

² Quinclorac 75DF Select can be applied 7 days or greater prior to seeding.

³ Quinclorac 75DF Select can be used any time prior to, at, or after sprigging as indicated by turfgrass species in above Table 4.

⁴ 0.18 oz. to 0.275 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.

Time application of Quinclorac 75DF Select around the seeding operations using the above chart as a reference point.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

PESTICIDE STORAGE: Store in a cool, dry, and well-ventilated areas. Do not store under wet conditions.

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 container. Do not reuse or refill this container. Offer for recycling, if available. Triple rinse or pressure rinse container (or equivalent) promptly after emptying.

Triple rinse non-refillable ≤ 50 pounds as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ 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.

Triple rinse non-refillable ≥ 50 pounds as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ 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. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

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