

42750-220

03-22-2011

1/74



U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (7504P)
Ariel Rios Building
1200 Pennsylvania Ave., NW
Washington, D.C. 20460

EPA Registration Number:
42750-220

Date of Issuance:
MAR 22 2011

NOTICE OF PESTICIDE:

- Registration
- Reregistration

(under FIFRA, as amended)

Term of Issuance: Unconditional

Name of Pesticide Product:
Quinclorac 15.93% FL

Name and Address of Registrant (include ZIP Code):

Albaugh, Inc.
1525 NE 36th Street
Ankeny, IA 50021

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act. Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is registered in accordance with FIFRA provided that you:

1. Submit and/or cite all data required for registration review/reregistration of your product when the Agency requires all registrants of similar products to submit data.
2. Submit one-year Storage Stability (Guideline 830.6317) and Corrosion Characteristics (Guideline 830.6320) studies within eighteen (18) months from the date of this notice.

The Basic Confidential Statement of Formula (CSF) dated September 8, 2010 is acceptable.

A stamped copy of the label is enclosed for your records. Submit one (1) copy of the revised final printed label before you release the product for shipment. Products shipped after eighteen (18) months from the date of this Notice or the next printing of the label, whichever occurs first, must bear the new revised label. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA §6(e). Your release for shipment of the product constitutes acceptance of these conditions.

If you have any questions regarding this Notice, please contact Mindy Ondish at (703)605-0723 or at ondish.mindy@epa.gov.

Signature of Approving Official:

Kable Bo Davis
Product Manager 25
Herbicide Branch
Registration Division (7505P)

Date:

MAR 22 2011

QUINCLORAC 15.93% FL
HERBICIDE

ACTIVE INGREDIENT:

quinclorac: 3,7-dichloro-8-quinolinecarboxylic acid 15.93%

OTHER INGREDIENTS: 84.07%

TOTAL: 100.00%

Equivalent to: 1.4 lbs quinclorac per gallon.

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.)

See inside for complete First Aid, Precautionary Statements, Directions for Use, Conditions of Sale and Warranty, and state-specific crop and/or use site restrictions.

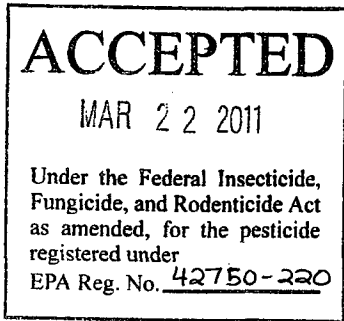
FIRST AID	
IF SWALLOWED	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • DO NOT induce vomiting unless told to do so by a poison control center or doctor. • DO NOT give anything by mouth to an unconscious person.
IF ON SKIN OR CLOTHING	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15 to 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 to 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, I preferably by mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
HOT LINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor or going for treatment. For transport or medical emergency contact CHEMTREC at 1-800-424-9300	

EPA Reg. No. 42750-220

EPA Est. No. xxxxxx-xx-xxx

NET CONTENTS: ____ Gal.

MANUFACTURED FOR:
Albaugh, Inc.
Ankeny, IA 50021



PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

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

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemically resistant to this product are listed below. For more options, refer to Category A on an EPA chemical resistance category selection chart.

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves, such as butyl rubber > 14 mils, or natural rubber > 14 mils, or neoprene rubber > 14 mils, or nitrile rubber > 14 mils
- Shoes plus socks

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS

Users should:

- | |
|---|
| <ul style="list-style-type: none"> • Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. • Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. • Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing. |
|---|

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.

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.

DIRECTIONS FOR USE

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

Intended for use by certified commercial applicators or persons under their direct supervision and for those uses covered by the certified applicator's certification.

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 by air or through any type of irrigation equipment. Albaugh, Inc. does not recommend or authorize the use of this product in manufacturing, processing or preparing custom blends with other products for application to turf.

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
<p>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.</p> <p>DO NOT enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.</p> <p>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:</p> <ul style="list-style-type: none"> • Coveralls • Chemical-resistant gloves made of any waterproof material (such as nitrile, butyl, neoprene, and/or barrier laminate) • Shoes plus socks

NONAGRICULTURAL USE REQUIREMENTS
<p>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.</p> <p>Professional applications to residential and nonresidential turf (except sod farms) are not within the scope of the Worker Protection Standard.</p> <ul style="list-style-type: none"> • DO NOT enter or allow others to enter the treated area until sprays have dried.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: DO NOT store box under dampness or high humidity.

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

CONTAINER DISPOSAL: Nonrefillable Container. DO NOT reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying; then offer for recycling, if available, or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

Triple rinse containers small enough to shake (capacity \leq 5 gallons) as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank, or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

Triple rinse containers too large to shake (capacity $>$ 5 gallons) as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. 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 mix tank and continue to drain for 10 seconds after the flow begins to drip. 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.

PRODUCT INFORMATION

QUINCLORAC 15.93% FL herbicide may be applied post-emergence to residential and nonresidential turf grasses (refer to Table 1. Turf Tolerance (Established) for the control of many broadleaf and grass weeds. Examples of such turf sites include, but are not limited to:

- Grounds or lawns around residential and commercial establishments
- Multifamily dwellings
- Military and other institutions
- Parks
- Airports
- Roadsides
- Schools
- Picnic grounds
- Athletic fields
- Houses of worship
- Cemeteries
- Golf courses
- Sod farms

Mode of Action

QUINCLORAC 15.93% FL 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

QUINCLORAC 15.93% FL has a low probability of selecting for resistant weed biotypes. However, repeated applications of a single mode of action in a weed management plan increase the probability of selecting for naturally occurring biotypes with less susceptibility to herbicides using that mode of action. Therefore, weed management programs should include rotations using herbicides with different modes of action.

APPLICATION INFORMATION

Apply QUINCLORAC 15.93% FL to actively growing weeds as post-emergence broadcast or spot sprays using the turf species, rate and growth stages indicated in Tables 1, 2 and 3.

DO NOT exceed the labeled application rate or fail to comply with use restrictions listed in Restrictions and Limitations.

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.

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 turf-grass species. Not all chelated iron or sprayable nitrogen fertilizers are compatible with QUINCLORAC 15.93% FL. Always perform a compatibility test to ensure proper mixing. See Compatibility Test For Mix Components section of label for directions,

Spot Applications:

Post-emergence spot applications may be made to susceptible weeds in turf grass that is tolerant to QUINCLORAC 15.93% FL (see Tables 1 and 2). Apply 1.5 fluid ounces of QUINCLORAC 15.93% FL per 1000 square feet (0.7 lb ai/A) 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 QUINCLORAC 15.93% FL to maximize weed control and minimize potential turf injury. Clippings from the first three mowings after application should be left on the treated area.

Irrigation and Rainfall: If soil moisture is not sufficient prior to QUINCLORAC 15.93% FL 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 desirable.

Extended Grass Control:

To extend grass control, QUINCLORAC 15.93% FL can be tank mixed with Pendulum® herbicide or Pre-M® herbicide to provide residual control of annual grasses. Consult the respective tank mix labels for additional weeds controlled.

Seeding/Overseeding/Sprigging

The use of QUINCLORAC 15.93% FL before or after seeding or over-seeding a turf area will not significantly interfere with the turf grass 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.

ADDITION OF ADJUVANTS

Additives in Spray Mix to Achieve Control

Methylated seed oil is the preferred adjuvant for post-emergence applications. However, if an MSO is not available in your region, the use of a crop oil concentrate or other high quality surfactant must be used in the spray tank at the time of application. (Refer to actual product label for use rates and directions.)

Additives should not be used when tank mixing with Emulsifiable Concentrate (EC) products as turf phyto-toxicity may occur.

The methylated seed oil or crop oil concentrate used as the adjuvant with QUINCLORAC 15.93% FL herbicide 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 or crop oil concentrate used should contain emulsifiers to provide good mixing quality.

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.

Consult your local Albaugh, Inc. representative or distributor for instructions for your area.

MIXING INSTRUCTIONS FOR QUINCLORAC 15.93% FL

1. Water: Begin by agitating a thoroughly clean sprayer tank 3/4 full of clean water.
2. Agitation: Maintain constant agitation throughout mixing and application.
3. Inductor: If an inductor is used, rinse it thoroughly after each component has been added.
4. Products in PVA bags: Place any product contained in water-soluble PVA bags into the mixing tank. Wait until all water-soluble PVA bags have fully dissolved and the product is evenly mixed in the spray tank before continuing.
5. Water-dispersible products (dry flowables, wettable powders, suspension concentrates, or suspo-emulsions).
6. Water-soluble products (such as QUINCLORAC 15.93% FL).
7. Emulsifiable concentrates (such as methylated seed oil or crop oil concentrate).

- 8. Water-soluble additives (such as chelated iron or soluble nitrogen fertilizer when applicable; not all chelated iron or sprayable nitrogen fertilizers are compatible with QUINCLORAC 15.93% FL, Always perform a compatibility test to ensure proper mixing. See Compatibility Test For Mix Components section of label for directions.)
- 9. Remaining quantity of water.

Maintain constant agitation during application.

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 15.93% FL to the sprayer. Cap sprayer and agitate to ensure mixing. Uncap sprayer and add appropriate amount of methylated seed oil. Cap sprayer and agitate once again. Uncap sprayer and finish filling tank to desired level. 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 before spraying is resumed.

SPRAYING INSTRUCTIONS FOR QUINCLORAC 15.93% FL

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 1000 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 (dry flowables, wettable powders, suspension concentrates, or suspo-emulsions) - Cap the jar and invert 10 cycles.
- 4) Water-soluble products (QUINCLORAC 15.93% FL) - 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.

RESTRICTIONS AND LIMITATIONS

- DO NOT apply more than 1 gallon of QUINCLORAC 15.93% FL herbicide per acre (or 3 fl ozs per 1000 sq ft) in one year (1.4 lbs ai per acre per year).
- DO NOT apply to golf course collars or greens.
- DO NOT make applications of QUINCLORAC 15.93% FL to drought-stressed turfgrass and/or drought-stressed weeds.
- DO NOT apply to fine fescue unless it is part of a seed blend.
- DO NOT apply to Bahiagrass, carpetgrass, St. Augustinegrass, centipedegrass, dichondra, or lawns or turf where desirable clovers are present.
- 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 apply within 4 weeks after seedling emergence of Kentucky bluegrass, creeping bentgrass, fine fescue blends and perennial ryegrass.
- DO NOT apply QUINCLORAC 15.93% FL prior to and within 2 weeks after seeding seashore paspalum.
- DO NOT use clippings as mulch or compost around flowers, ornamentals, trees, or in vegetable gardens.
- Apply when wind speed is less than 10 mph as 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 as 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 discard rinsate on or near desirable plants.
- DO NOT apply through any type of irrigation system.
- DO NOT apply by air.
- DO NOT use to formulate or reformulate any other pesticide product that is not registered by EPA.

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, or other broadleaf herbicides may be used. For extended residual control, apply QUINCLORAC 15.93% FL with Pendulum® herbicide or PRE-M® herbicide.

For sedge control, applications of QUINCLORAC 15.93% FL with Basagran® T/O herbicide, Image® 70 DG herbicide, Lescogran® herbicide, or MSMA may be made. Combinations with MSMA will aid in control of certain grassy weeds, such as Bahiagrass or kikuyugrass. Consult labels for turf grass tolerance when

tank mixing. 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 QUINCLORAC 15.93% FL 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 pesticides and/or additives. Refer to manufacturer's labels for specific use directions, precautions, and limitations before tank mixing with QUINCLORAC 15.93% FL, 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	Bentgrass, seaside
Buffalograss	(Poa trivialis)	Centipedegrass
Fescue, tall	Fescue, Chewing's	Dichondra
Ryegrass, annual	Fescue, fine ²	St. Augustinegrass
Ryegrass, perennial	Fescue, hard	
Zoysiagrass	Fescue, red	
	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).		
² Apply QUINCLORAC 15.93% FL herbicide 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.		

11
14

Table 2. QUINCLORAC 15.93% FL Application to Establish Creeping Bentgrass		
Turfgrass Species	Application Rate/Timing	Additive Rate
Bentgrass, creeping ^{1,2}	QUINCLORAC 15.93% FL must be applied in 2 to 3 split applications at 0.5 to 1.0 fl oz per 1000 sq ft (0.25 to 0.5 lb ai/A) (not to exceed 1 gal of product per acre [3 fl ozs of product per 1000 sq ft] per year or 1.4 lbs ai/A/year). Time sequential application(s) 14 to 21 days apart.	Use methylated seed oil at 0.55 fl oz per 1000 sq ft (1.5 pints per acre).
Bentgrass, creeping ^{1,3}	QUINCLORAC 15.93% FL must be applied in 2 to 3 split applications at 0.65 to 1.0 fl oz per 1000 sq ft (0.3 to 0.5 lb ai/A) (not to exceed 1 gal of product per acre [3 fl ozs of product per 1000 sq ft] per year or 1.4 lbs ai/A/year). Time sequential application(s) 14 to 21 days apart.	Use methylated seed oil at 0.55 fl oz per 1000 sq ft (1.5 pints per acre).
<p>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).</p> <p>² Not for use at this rate range in California.</p> <p>³ This rate range for use only in California.</p> <p>DO NOT use on golf course greens and collars.</p> <p>Consult Table 4. Seeding/Overseeding/Sprigging Timing Chart for this situation.</p>		

Table 3. Application Rates and Timing for Post-emergence Weed Control in Turf			
Weed Species		QUINCLORAC 15.93% FL herbicide Rate	Additive Rate
Grasses Controlled			Apply 1.5 pints per acre (0.55 fl oz per 1000 sq ft) methylated seed oil
Common Name	Scientific Name	Broadcast Applications 0.5 gal of product per acre or 1.5 fl ozs per 1000 sq ft (0.7 lb ai/A)	
Barnyardgrass	<i>Echinochloa crusgalli</i>		
Crabgrass, large ^{1,4}	<i>Digitaria sanguinalis</i>		
Crabgrass, smooth ^{1,4}	<i>Digitaria ischaemum</i>		
Foxtail, giant ¹	<i>Safari faberi</i>		
Foxtail, green ¹	<i>Setari viridis</i>		
Foxtail, yellow ¹	<i>Setari glauca</i>		
Kikuyugrass ^{2,3}	<i>Pennisetum dandestinum</i>		
Signalgrass, broadleaf	<i>Brachiaria platyphylla</i>		
Torpedograss ³	<i>Panicum repens</i>		
Broadleaf Weeds Controlled			Spot Applications Apply 1.5 fl ozs of QUINCLORAC 15.93% FL per 1000 sq ft (0.7 lb ai/A) of treated area. Refer to footnotes in Tables 2 and 3 for specific turf-
Common Name	Scientific Name		
Bindweed, field	<i>Convolvulus arvensis</i>		
Clover, hop	<i>Trifolium aureum</i> <i>Pollich</i>		
Clover, red	<i>Trifolium pratense</i>		
Clover, white	<i>Trifolium repens</i>		
Daisy, English ^{2,5}	<i>Bellis perenne</i> <i>Taraxacum</i>		

Weed Species		QUINCLORAC 15.93% FL herbicide Rate	Additive Rate
Dandelion, common ² Dollarweed	<i>officinale Hydrocotyle Umbellate</i>	grass or weed instructions.	
Geranium, Carolina Medic, black Morningglory spp. Speedwell, common Speedwell, slender Speedwell, thymeleaf Violet, wild	<i>Geranium carolinium</i> <i>Medicago lupulina</i> <i>Ipomea sp.</i> <i>Veronica officinalis</i> <i>Veronica filiformis</i> <i>Veronica serpyllifolia</i> <i>Viola sp.</i>		

¹ Under certain conditions, application of QUINCLORAC 15.93% FL 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 QUINCLORAC 15.93% FL + methylated seed oil are applied either before second tiller or as weed grasses mature.

² Tank mix partner or sequential application required.

³ Make 2 sequential applications of 1.0 fl oz (0.5 lb ai/A) of QUINCLORAC 15.93% FL per 1000 sq ft and an additional sequential application up to 0.9 fl oz (0.4 lb ai/A) of QUINCLORAC 15.93% FL per 1000 sq ft at 14- to 21-day intervals.

⁴ Biotypes of large and smooth crabgrass in California have shown varied response to QUINCLORAC 15.93% FL. If control failure occurs following a full or split application, DO NOT reapply QUINCLORAC 15.93% FL. Change to a herbicide with a different mode of action.

⁵ NOT FOR USE to control this weed in California.

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 rygrass	OK	OK	OK	OK	OK
Buffalograss	OK	OK	OK	OK	OK
Common Bermudagrass ³ (for sprigging see footnote 3)	OK	OK	OK	OK	OK
Creeping bentgrass	OK	NO	NO	NO	OK
Fine fescues (in blend)	OK	NO	NO	NO	OK
Hybrid Bermudagrass ³ (for sprigging see footnote 3)	OK	OK	OK	OK	OK
Kentucky bluegrass	OK	NO	NO	NO	OK

Table 4. Seeding/Overseeding/Sprigging Timing Chart ¹					
Variety	Before seeding ²	At seeding	7 days after emergence	14 days after emergence	28 days after emergence
Perennial ryegrass	OK	OK	NO	NO	OK
Seashore paspalum ^{3,4} (for sprigging see footnote 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 QUINCLORAC 15.93% FL herbicide applications are made on newly emerged turf seedlings until 28 days after emergence; with the exception of seashore paspalum, a QUINCLORAC 15.93% FL application rate of 1.5 fl ozs/1000 sq ft (0.7 lb ai/A) can be made to all other turf grass species in Table 4 above.

² QUINCLORAC 15.93% FL can be applied 7 days or greater prior to seeding.

³ QUINCLORAC 15.93% FL can be used anytime prior to, at or after sprigging as indicated by Turf grass species in Table 4 above.

⁴ 0.75 fl oz to 1.5 fl ozs/1000 sq ft (0.35 to 0.7 lb ai/A) application can be made at times indicated in Table 4 above.

Application of QUINCLORAC 15.93% FL should be timed around the seeding operations using the above chart as a reference point.

Table 5. Spot Spraying with QUINCLORAC 15.93% FL		
Spray Mil Volume (gallons)	QUINCLORAC 15.93% FL Product in Mix (tablespoons)	MSO Adjuvant in Mix (tablespoons)
1	3	1.5
2	6	3.0
3	9	4.5

• Apply at the rate of 1 gallon per 1000 sq ft.
1 tablespoon = 0.5 fl oz (0.25 lb ai/A) of QUINCLORAC 15.93% FL product.

NOTES: For consistent results, make QUINCLORAC 15.93% FL application to newly germinated, to 1 -tiller crabgrass, and when crabgrass has matured to 5 tillers or greater.*

* Under certain conditions, applications of QUINCLORAC 15.93% FL 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,

CONDITIONS OF SALE AND WARRANTY

The Directions For Use of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and must be followed carefully. However, it is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or use of the product in a manner inconsistent with its labeling, all of which are beyond the control of Albaugh, Inc. or the Seller. To the extent consistent with applicable law, all such risks shall be assumed by the Buyer.

Albaugh, Inc. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the Directions For Use, subject to the inherent risks, referred to above,

To the extent consistent with applicable law, Albaugh, Inc. makes no other express or implied warranty of fitness or merchantability or any other express or implied warranty.

To the extent consistent with applicable law, Buyer's exclusive remedy and Albaugh, Inc.'s exclusive liability, whether in contract, tort, negligence, strict liability, or otherwise, shall be limited to repayment of the purchase price of the product.

To the extent consistent with applicable law, Albaugh, Inc. and the seller disclaim any liability for consequential, special or indirect damages resulting from the use or handling of this product.

Albaugh, Inc. and the Seller offer this product, and the Buyer and User accept it, subject to the foregoing Conditions of Sale and Warranty which may be varied only by agreement in writing signed by a duly authorized representative of Albaugh, Inc..

Basagran, Image and Pendulum are registered trademarks of BASF.
Lescogran and PRE-M are registered trademarks of Lesco, LLC,