



U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs  
Registration Division (7505T)  
1200 Pennsylvania Ave., N.W.  
Washington, D.C. 20460

EPA Reg. Number:

83190-8

Date of Issuance:

6/16/22

NOTICE OF PESTICIDE:

Registration  
 Reregistration  
(under FIFRA, as amended)

Term of Issuance:

Unconditional

Name of Pesticide Product:

LIQUID HARVEST  
QUINCLORAC

Name and Address of Registrant (include ZIP Code):

BLUEWATER CHEMGROUP, INC.  
PO Box 11384  
Fort Wayne, IN 46857

**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 under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA).

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 unconditionally registered in accordance with FIFRA section 3(c)(5) provided that you:

1. Submit and/or cite all data required for registration/reregistration/registration review of your product when the Agency requires all registrants of similar products to submit such data.

*Continues page 2*

Signature of Approving Official:

*Emily Schmid*

Emily Schmid, Product Manager 25  
Herbicide Branch, Registration Division (7505P)

Date:

6/16/22

2. Make the following label changes before you release the product for shipment:
  - Revise the EPA Registration Number to read, “EPA Reg. No. 83190-8.”
3. Submit one copy of the final printed label for the record before you release the product for shipment.

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 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 these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records.

The record for this product currently contains the following CSF(s):

- Basic CSF dated 03/24/2022

If you have any questions, please contact Theresa Gerber at 202-566-2691 or by email at [gerber.theresa@epa.gov](mailto:gerber.theresa@epa.gov).

Enclosure

**ACCEPTED**

**6/16/2022**

Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 83190-8

{Note to reviewer: Text in brackets [ ] denotes optional text.}

QUINCLORAC	GROUP <b>4</b>	HERBICIDES
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# Quinclorac

**[For Use on Residential and Non-Residential Turfgrass to Control Specified Broadleaf and Grass Weeds.]**

<b>ACTIVE INGREDIENT:</b>	<b>WT. BY %</b>
Dimethylamine Salt of Quinclorac: 3,7-dichloro-8-quinolinecarboxylic acid.....	18.92%
<b>OTHER INGREDIENTS:</b> .....	<u>81.08%</u>
<b>TOTAL:</b> .....	<b>100.00%</b>

Contains 1.50 lbs./gal. of quinclorac: 3,7-dichloro-8-quinolinecarboxylic acid equivalent.

## 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.)

<b>FIRST AID</b>	
<b>IF SWALLOWED:</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• <b>DO NOT</b> induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• <b>DO NOT</b> give anything by mouth to an unconscious person.</li> </ul>
<b>IF ON SKIN OR CLOTHING:</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15 - 20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>IF IN EYES:</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>IF INHALED:</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth-to-mouth if possible.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>HOTLINE NUMBER</b>	
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 <b>1-800-222-1222</b> .	

[Optional referral statements when booklets and small container labels are used:]  
[See back/side/other label/booklet for [complete] [additional] [First Aid,] [Precautionary Statements], [Directions For Use], and [Storage and Disposal].]

**Net Contents:** [8 FL OZ (236.6 mL)]  
[1 PT (473.2 mL)]  
[1 QT (946.4 mL)]  
[64 FL OZ (1.89 L)]  
[1 GAL (3.79 L)]

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

Harmful if swallowed. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

**Applicators and other handlers must wear:**

- Long-sleeved shirt and long pants
- Chemical-resistant gloves, made of butyl rubber  $\geq 14$  mils, natural rubber  $\geq 14$  mils, neoprene rubber  $\geq 14$  mils, or nitrile rubber  $\geq 14$  mils
- Shoes plus socks

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

**ENGINEERING CONTROLS**

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:**

- 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**

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, to 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 this 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 specified area during application. For any requirements specific to your state or tribe, consult the agency responsible for pesticide regulation.

BLUEWATER CHEMGROUP INC does not recommend or authorize the use of this product in manufacturing, processing, or preparing custom blends with other products for application to turfgrass. **Do not** use to formulate or reformulate any other pesticide product that is not registered by EPA.

**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, or water, is:

- Coveralls
- Chemical-resistant gloves made of any butyl rubber  $\geq 14$  mils, natural rubber  $\geq 14$  mils, neoprene rubber  $\geq 14$  mils, or nitrile rubber  $\geq 14$  mils
- 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.

Professional applications to residential and non-residential turfgrass (excluding sod farms) are not within the scope of the Worker Protection Standard.

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

**PRODUCT INFORMATION**

**Liquid Harvest Quinclorac** may be applied post-emergence to residential and non-residential turfgrass (refer to Table 1.) for the control of many broadleaf and grass weeds on the following sites: Airports, Athletic fields, Cemeteries, Golf Courses, Grounds or lawns (around Residential and Commercial Establishments), Houses of Worship, Military Institutions, Multifamily Dwellings, Parks, Picnic Grounds, Roadsides, Schools, and Sod Farms.

**Restrictions:**

- In New York, **Liquid Harvest Quinclorac** can only be applied as a spot application.
- **DO NOT** apply more than 128 fl. oz. (1.5 lbs. ae) of **Liquid Harvest Quinclorac** per acre (or 2.9 fl. oz. per 1,000 sq. ft.) in 1 year.
- **DO NOT** apply more than 64 fl. oz. (0.75 lb. ae) of **Liquid Harvest Quinclorac** per acre (or 1.45 fl. oz. per 1,000 sq. ft.) in a single application.
- **DO NOT** apply to golf course collars or greens.
- **DO NOT** make applications of **Liquid Harvest Quinclorac** 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, centipedegrass, colonial and seaside bentgrass, dichondra, St. Augustinegrass, or lawns or turfgrass where desirable clovers are present.
- **DO NOT** apply to exposed feeder roots of trees or ornamentals or within the dripline of trees and other ornamental species.
- **DO NOT** apply into any ornamental bed.
- **DO NOT** apply within 4 weeks after seedling emergence of creeping bentgrass, fine fescue blends, Kentucky bluegrass, and perennial ryegrass.
- **DO NOT** apply **Liquid Harvest Quinclorac** 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.
- **DO NOT** plant eggplants or tobacco within 12 months in areas treated with **Liquid Harvest Quinclorac**
- **DO NOT** plant tomatoes or carrots within 24 months in areas treated with **Liquid Harvest Quinclorac**
- Apply as a medium or coarser spray (ASABE standard 572).
- **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.
- 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** discard rinsate on or near desirable plants.
- **DO NOT** apply this product by air or through any type of irrigation system or equipment.

**RESISTANCE MANAGEMENT**

For resistance management, **Liquid Harvest Quinclorac** is a Group 4 herbicide. Any weed population may contain or develop plants naturally resistant to **Liquid Harvest Quinclorac** and other Group 4 herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same field. Appropriate resistance management strategies should be followed.

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

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

- surviving plants mixed with controlled individuals of the same species. If resistance is suspected, prevent weed seed production in the affected area by an alternative herbicide from a different group or by a mechanical method such as hoeing or tillage. Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment when moving between fields, and planting clean seed.
- If a weed pest population continues to progress after treatment with this product, discontinue use of this product, and switch to another management strategy or herbicide with a different mode of action, if available.
- Contact your local extension specialist or certified crop advisors for additional pesticide resistance management and/or integrated weed-management recommendations for specific crops and weed biotypes.

#### APPLICATION INFORMATION

In New York, **Liquid Harvest Quinclorac** can only be applied as a spot application.

Apply **Liquid Harvest Quinclorac** to actively growing weeds as post-emergence broadcast or spot sprays using the turfgrass species, rate, and growth stages indicated in **Table 1**, **Table 2**, and **Table 3**. **DO NOT** exceed the labeled application rate or fail to comply with use restrictions listed in the above **Restrictions** section, under **PRODUCT INFORMATION**.

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 (MSO). Refer to **Table 2** and **Table 3** for rates.

Adding adjuvants may cause slight leaf burn, but new growth is normal, and turfgrass 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 turfgrass injury. Chelated iron or sprayable soluble nitrogen fertilizer will reduce a slight yellowing that may occur on some turfgrass species. Not all chelated iron or sprayable nitrogen fertilizers are compatible with **Liquid Harvest Quinclorac**. Always perform a compatibility test to ensure proper mixing. See **Compatibility Test For Mix Components** section of label for directions.

#### Broadcast Applications

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 - 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. Arrange nozzles for uniform coverage for turfgrass and weeds to be controlled. Adjust boom height, nozzle selection, and pressure 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.

**DO NOT** apply when wind speeds are greater than 10 mph at the application site.

#### Spot Applications

Post-emergence spot applications may be made to susceptible weeds in turfgrass that is tolerant to **Liquid Harvest Quinclorac** (see **Table 1** and **Table 2**). Apply 1.45 fl. oz. (0.75 lb. ae/A) of **Liquid Harvest Quinclorac** per 1,000 sq. ft. of treated area. See **Table 5** for spot spray mix instructions.

**Spot Treatment in New York:** 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.

#### Mowing Information

**DO NOT** mow 2 days before or after applying **Liquid Harvest Quinclorac** to maximize weed control and minimize potential turfgrass injury. Clippings from the first 3 mowings after application must be left on the treated area.

#### Irrigation and Rainfall

If soil moisture is not sufficient prior to **Liquid Harvest Quinclorac** 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 - 7 days after application, irrigation of at least half inch is desirable.

#### Extended Grass Control

To extend grass control, **Liquid Harvest Quinclorac** can be tank mixed with Pendulum® 3.3 EC herbicide (EPA Reg. No. 241-341, pendimethalin) or Pendulum® AquaCap™ herbicide (EPA Reg. No. 241-416, pendimethalin) to provide residual control of annual grasses. Consult the respective tank mix labels for additional weeds controlled.

#### Seeding/Overseeding/Sprigging

The use of **Liquid Harvest Quinclorac** before or after seeding or overseeding a turfgrass 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**. See **Table 4** for seeding, overseeding, or sprigging application timing.

## 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 (COC) 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 use directions.

Additives must not be used when tank mixing with emulsifiable concentrate (EC) products or turfgrass phytotoxicity may occur.

Methylated seed oil or crop oil concentrate used as the adjuvant with **Liquid Harvest Quinclorac** 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 BLUEWATER CHEMGROUP INC representative or distributor for instructions for your area.

## TURFGRASS TANK MIXES

Read and follow the applicable Restrictions and Limitations and Directions For use on all products involved in tank mixing. 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.

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 **Liquid Harvest Quinclorac** with Pendulum® 3.3 EC herbicide or Pendulum® AquaCap™ herbicide.

For sedge control, applications of **Liquid Harvest Quinclorac** with Basagran® T&O herbicide (EPA Reg. No. 7969-326, sodium bentazon), Image® 70 DG herbicide (EPA Reg. No. 241-319, imazaquin), or MSMA may be made. Combinations with MSMA will aid in control of certain grass weeds, such as Bahiagrass or kikuyugrass. Consult labels for turfgrass tolerance when tank mixing. Make separate applications if all target weeds are not at the correct growth stage for treatment at the same time.

Physical incompatibility, reduced weed control, or turfgrass injury may result from mixing **Liquid Harvest Quinclorac** 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.

### 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 (such as **Liquid Harvest Quinclorac**) - 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.

Let the solution stand for 15 minutes.

Evaluate the solution for uniformity and stability. The spray solution should not have free oil on the surface nor thick (clabbered) texture. For water-dispersible granule (WG) or wettable powder (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.

**Mixing Instructions - Mixing Order**

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 **Liquid Harvest Quinclorac**)
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 **Liquid Harvest Quinclorac**. Always perform a compatibility test to ensure proper mixing. See **Compatibility Test for Mix Components** section above for directions.)
9. Remaining quantity of water

Maintain constant agitation during application.

**Backpack Sprayer**

Begin with a clean spray tank. Fill the spray tank ½ full with clean water and add the required amount of **Liquid Harvest Quinclorac** 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, 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.

**APPLICATION DIRECTIONS**

**Table 1. Turfgrass Tolerance (Established)**

Highly Tolerant	Moderately Tolerant	Susceptible
Bermudagrass, Common*	Bentgrass, Creeping*	Bahiagrass
Bluegrass, Annual	Bermudagrass, Hybrid*	Bentgrass, Colonial
Bluegrass, Kentucky	Bluegrass, Rough ( <i>Poa Trivialis</i> )	Bentgrass, Seaside
Buffalograss	Fescue, Chewing's	Carpetgrass
Fescue, Tall	Fescue, Fne**	Centipedegrass
Ryegrass, Annual	Fescue, Hard	Dichondra
Ryegrass, Perennial	Fescue, Red	St. Augustinegrass
Zoysiagrass	Paspalum, Seashore	

\*Yellowing that occurs on these species can be reduced by the addition of chelated iron or sprayable soluble nitrogen fertilizer. See **APPLICATION INFORMATION** and **ADJUVANTS**.

\*\*Apply **Liquid Harvest Quinclorac** to fine fescue only when it is part of a blend.

**Restriction:**

- **DO NOT** use on golf course greens and collars.

**Table 2. Liquid Harvest Quinclorac Application to Established Creeping Bentgrass**

Turfgrass Species	Application Rate/Timing	Additive Rate
Bentgrass, Creeping* <sup>1</sup>	<b>Liquid Harvest Quinclorac</b> must be applied in 2 - 3 split applications at 0.5 - 1.0 fl. oz. per 1,000 sq. ft. (0.25 - 0.51 lb. ae/A).  Time sequential application(s) 14 - 21 days apart.	Methylated seed oil at 0.55 fl. oz. per 1,000 sq. ft. (1.5 pts./A)
Bentgrass, Creeping* <sup>2</sup>	<b>Liquid Harvest Quinclorac</b> must be applied in 2 to 3 split applications at 0.65 - 1.0 fl. oz. per 1,000 sq. ft. (0.33 - 0.51 lb. ae/A).  Time sequential application(s) 14 - 21 days apart.	

\*Yellowing that occurs on these species can be reduced by the addition of chelated iron or sprayable soluble nitrogen fertilizer. See **APPLICATION INFORMATION** and **ADJUVANTS**.

<sup>1</sup> **DO NOT** apply this rate in California.

<sup>2</sup> This rate range for use only in California.

**Restrictions:**

- **DO NOT** exceed 128 fl. oz. (1.5 lbs. ae) of **Liquid Harvest Quinclorac** per acre (2.9 fl. oz. per 1,000 sq. ft.) per year.
- **DO NOT** use on golf course greens and collars.



{Note to reviewer: Text in brackets [ ] denotes optional text.}

**Table 3. Application Rates and Timing for Post-Emergence Weed Control in Turfgrass\***

Weed Species Controlled	Liquid Harvest Quinclorac Rate	Additive Rate
<p><b>Grass Weeds</b></p> <p>Barnyardgrass (<i>Echinochloa crus-galli</i>)                      Crabgrass, Large (<i>Digitaria sanguinalis</i>)<sup>1,4</sup>                      Crabgrass, Smooth (<i>Digitaria ischaemum</i>)<sup>1,4</sup> Foxtail,                      Giant (<i>Setaria faberi</i>)<sup>1</sup>                      Foxtail, Green (<i>Setaria viridis</i>)<sup>1</sup>                      Foxtail, Yellow (<i>Setaria glauca</i>)<sup>1</sup>                      Kikuyugrass (<i>Pennisetum clandestinum</i>)<sup>2,3</sup> Signalgrass,                      Broadleaf (<i>Brachiaria platyphylla</i>)<sup>1</sup> Torpedograss                      (<i>Panicum repens</i>)<sup>3</sup></p> <p><b>Broadleaf Weeds</b></p> <p>Bindweed, Feld (<i>Convolvulus arvensis</i>) Clover, Hop                      (<i>Trifolium aureum Pollich</i>) Clover, Red (<i>Trifolium                      pratense</i>)                      Clover, White (<i>Trifolium repens</i>)                      Daisy, English (<i>Bellis perenne</i>)<sup>2,5</sup>                      Dandelion, Common (<i>Taraxacum officinale</i>)<sup>2</sup>                      Dollarweed (<i>Hydrocotyle umbellata</i>)                      Geranium, Carolina (<i>Geranium carolinianum</i>)                      Horseweed (<i>Conyza canadensis</i>)<sup>5</sup>                      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.)</p>	<p><b>Broadcast Application</b></p> <p>64 fl. oz. per acre or                      1.45 fl. oz. per 1,000 sq. ft. (0.75 lb. ae/A)</p> <p><b>Spot Application</b></p> <p>1.45 fl. oz. per 1,000 sq. ft. of treated area                      (0.75 lb. ae/A)</p> <p>Refer to footnotes in <b>Table 2</b> and <b>Table 3</b> for                      specific turfgrass or weed instructions.</p>	<p><b>Methylated seed oil at</b>                      0.55 fl. oz. per 1,000                      sq. ft. (1.5 pts./A)</p>

\***New York: Liquid Harvest Quinclorac** can only be applied as a spot application.  
<sup>1</sup>Under certain conditions, **Sharda Quinclorac DMA 18.92% SL** application 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 **Liquid Harvest Quinclorac SL** + methylated seed oil are applied either before second tiller or as grass weeds mature.  
<sup>2</sup>Tank mix partner or sequential application required.  
<sup>3</sup>Make 2 sequential applications of 1.0 fl. oz. (0.51 lb. ae/A) of **Liquid Harvest Quinclorac** per 1,000 sq. ft. and an additional sequential application up to 0.90 fl. oz. (0.46 lb. ae/A) of **Sharda Quinclorac DMA 18.92% SL** per 1,000 sq. ft. at 14- to 21-day intervals.  
<sup>4</sup>Biotypes of large and smooth crabgrass in California have shown varied response to **Liquid Harvest Quinclorac**. If control failure occurs following a full or split application, do not reapply **Liquid Harvest Quinclorac**. Change to a herbicide with a different mode of action. <sup>5</sup>Not for use to control this weed in California.

**Table 4. Seeding/Overseeding/Sprigging Timing Chart\***

Variety	Before Seeding <sup>1</sup>	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 <sup>2</sup> (for sprigging see footnote 2)	OK	OK	OK	OK	OK
Creeping Bentgrass	OK	NO	NO	NO	OK
Fine Fescue (in blend)	OK	NO	NO	NO	OK
Hybrid Bermudagrass <sup>2</sup> (for sprigging see footnote 2)	OK	OK	OK	OK	OK
Kentucky Bluegrass	OK	NO	NO	NO	OK
Perennial Ryegrass	OK	OK	NO	NO	OK
Seashore Paspalum <sup>2,3</sup> (for sprigging see footnote 2)	NO	NO	NO	OK	OK
Tall Fescue	OK	OK	OK	OK	OK
Zoysiagrass <sup>2</sup> (for sprigging see footnote 2)	OK	OK	OK	OK	OK

\*No adjuvant or additive should be used when **Liquid Harvest Quinclorac** applications are made on newly emerged turfgrass seedlings until 28 days after emergence. With the exception of seashore paspalum, a **Liquid Harvest Quinclorac** application rate of 1.45 fl. oz./1,000 sq. ft. (0.75 lb. ae/A) can be made to all other turfgrass species in **Table 4**.

<sup>1</sup> **Liquid Harvest Quinclorac** can be applied 7 days or greater prior to seeding.

<sup>2</sup> **Liquid Harvest Quinclorac** can be used anytime prior to, at or after sprigging as indicated by turfgrass species in **Table 4**.

<sup>3</sup>0.75 fl. oz. - 1.45 fl. oz./1,000 sq. ft. (0.37 - 0.75 lb. ae/A) application can be made at times indicated in **Table 4**. Time **Liquid Harvest Quinclorac** application around the seeding operations using the chart above as a reference point.

**Table 5. Spot Spraying with Liquid Harvest Quinclorac**

<b>*Spray Mix Volume (Gallons)</b>	<b>Liquid Harvest Quinclorac Product in Mix (Tablespoons)</b>	<b>MSO Adjuvant in Mix (Tablespoons)</b>
1	3	1.5
2	6	3.0
3	9	4.5

\*Apply at the rate of 1 gallon per 1,000 sq. ft.  
1 tablespoon = 0.5 fl. oz. (0.25 lb. ae/A) of **Liquid Harvest Quinclorac** product.

**Notes:** For consistent results, make **Liquid Harvest Quinclorac** application to newly germinated crabgrass, to 1-tiller crabgrass, and when crabgrass has matured to 5-tillers or greater. Under certain conditions, applications of **Liquid Harvest Quinclorac** made to annual grasses 2-tiller to 4-tiller may not provide complete control. A sequential application will be required for grass control in these situations.

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

### **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. Improper disposal of unused pesticide, spray mixture, or rinse water is a violation of Federal law. If these wastes cannot be used according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**CONTAINER HANDLING:**

Nonrefillable container. **DO NOT** reuse or refill this container. Offer for recycling if available. Triple rinse container (or equivalent) promptly after emptying. Triple rinse 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 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. Then offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill or by incineration.

### **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.

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{Optional graphic/text that may be featured on label}

Crabgrass Killer

Broadleaf and [&] Grass Weed Killer

Broadleaf and [&] Grass Weed Herbicide

Liquid Broadleaf and [&] Grass Weed Killer

