



## OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

WASHINGTON, D.C. 20460

January 24, 2024

Patricia A O'Reilly, PhD  
Federal Regulatory Manager  
Makhteshim Agan of North America (d/b/a ADAMA)  
8601 Six Forks Road, Suite 300  
Raleigh, NC 27615

Subject: Label Amendment - Registration Review Mitigation for Quinclorac  
Product Name: MANA QUINCLORAC 75  
EPA Registration Number: 66222-160  
Application Date: June 29, 2023  
Decision Number: 592788

Dear Patricia A O'Reilly, PhD:

The Agency, in accordance with the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, has completed reviewing all the information submitted with your application to support the Registration Review of the above referenced product in connection with the Quinclorac Interim Decision, and has concluded that your submission is acceptable. The label referred to above, submitted in connection with registration under FIFRA, as amended, is acceptable.

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 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) list 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 Assurance.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 12 months from the date of this letter. After 12 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

If you have any questions about this letter, please contact Caleb Carr by phone at (202) 566-0636, or via email at [carr.caleb@epa.gov](mailto:carr.caleb@epa.gov).

Sincerely,

A handwritten signature in blue ink, appearing to read "Linda Arrington", with a stylized flourish at the end.

Linda Arrington, Branch Chief  
Risk Management and Implementation Branch 4  
Pesticide Re-Evaluation Division  
Office of Pesticide Programs

ENCLOSURE: Stamped label

# MANA Quinclorac 75

(Alternate Brand Names:

Zurax, Ryzon 75DF, Quali-Pro Quinclorac 75DF, Primeraone Quinclorac 75DF)

<b>ACTIVE INGREDIENT:</b>	<b>% BY WT.</b>
Quinclorac: 3,7-dichloro-8-quinolinecarboxylic acid.....	75.0%
<b>OTHER INGREDIENTS</b> .....	25.0%
	<b>TOTAL:</b> 100.0%

EPA Reg. No. 66222-160

EPA Est. No.

**Manufactured for:**  
Makhteshim Agan of North America, Inc. (d/b/a ADAMA)  
8601 Six Forks Road, Suite 300  
Raleigh, NC 27615

**Net Weight: (Net Contents:)**

## KEEP OUT OF REACH OF CHILDREN

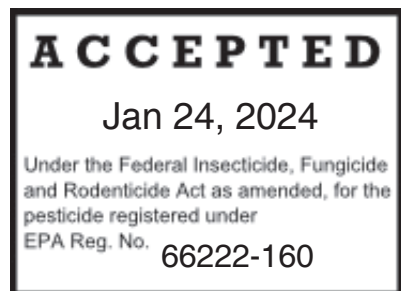
## CAUTION/ PRECAUCION

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 poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</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 IN 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 to 20 minutes.</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; then give artificial respiration, preferably by mouth to mouth, if possible.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>HOT LINE NUMBER</b>	
Have the product container or label with you when calling a poison control center or doctor or going for treatment. For 24/7 emergency medical treatment information, call 1-877-250-9291.	

**In case of spills, fire, leaks or accident call 1-800-535-5053.**

Note to Reviewer: Bracketed text indicates optional or alternative language  
(For additional precautionary statements, handling and use statements, see inside this booklet)



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

Harmful if swallowed. Causes moderate eye irritation. Avoid contact with eyes or clothing. 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
- Chemical-resistant gloves such as butyl rubber ≥ 14 mils, natural rubber ≥ 14 mils, 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. Keep and wash PPE separately from other laundry.

**ENGINEERING CONTROL STATEMENTS:** 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 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.

For terrestrial uses do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark, except as specified on this label for use on rice. Keep out of lakes, ponds, and streams. 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.

DO NOT apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

**AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) 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
- Chemical-resistant gloves such as butyl rubber ≥ 14 mils, natural rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, or nitrile rubber ≥ 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, forests, nurseries, or greenhouses. Do not enter or allow others to enter until sprays have dried.

## MANDATORY 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 determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions regarding spraying.

### Ground Boom Applications:

- **DO NOT** release spray at a height greater than 30 inches above the ground
- Apply as a medium course spray (ASABE Standard 572)
- **DO NOT** apply when wind speeds are greater than 10 mph at the application site
- **DO NOT** apply during temperature inversions.

### Aerial Applications:

- **DO NOT** release spray at a height greater than 10 feet above the crop canopy, unless a higher application height is required for reasons of pilot safety.
- Apply as a medium course spray (ASABE Standard 572)
- **DO NOT** apply when wind speed exceed 8 mph at the application site
- If the wind speed is 10 miles per hour or less, the distance of the outer most nozzles on the boom must not exceed  $\frac{3}{4}$  the length of the wingspan or rotor.
- Nozzles must always point backward parallel with the air stream and never be pointed downward more than 45 degrees.
- **DO NOT** apply during temperature inversions.

### Ground Applications:

- **DO NOT** release spray at a height greater than 30 inches above the ground
- Apply as a medium course spray (ASABE Standard 572)
- **DO NOT** apply when wind speeds are greater than 10 mph at the application site
- **DO NOT** apply during temperature inversions.

Where states have more stringent regulations, they must be observed.

The applicator must be familiar with and take into account the information covered in the Aerial Drift Management section. \_

## SPRAY DRIFT ADVISORIES

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

### 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 (See **Wind, Temperature and Humidity**, and **Temperature Inversion** sections of this label).

### Controlling Droplet Size

- **Volume**-Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets. Apply Ryzon 75 DF in 3-10 gallons of spray volume per acre.
- **Pressure**-Use the lower spray pressures recommended for the nozzle. Higher pressure reduces droplet size and does not improve canopy penetration. **WHEN HIGHER FLOW RATES ARE NEEDED, USE HIGHER FLOW RATE NOZZLES INSTEAD OF INCREASING PRESSURE.** Use a maximum of 40 psi (measured at the boom, not at the pump or in the line).
- **Number of Nozzles**-Use the minimum number of nozzles with the highest flow rate that provide uniform coverage.
- **Nozzle Orientation**-Orienting nozzles so that the spray is released backward (the downward angle of the nozzles on fixed wing aircraft should not be greater than 20°) or parallel to the airstream on helicopters, will produce larger droplets than other orientations. Significant deflection from horizontal will reduce droplet size and increase drift potential.
- **Nozzle Type**-Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Some nozzle examples are CP Lund or flat fans with angles of 25°- 65°. Solid stream nozzles oriented straight back produce larger droplets than other nozzle types. If using nozzle screens, do not use screens finer than the 50-mesh size as nozzle plugging is possible.
- **Boom Length**-For some use patterns, reducing the effective boom length to less than  $\frac{3}{4}$  of the wingspan or rotor length may further reduce drift without reducing swath width.
- **Application Height**-Applications may not be made at a height greater than 10 feet above the top of the largest plants unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and wind.

### Swath Adjustment

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

### Wind

Drift potential is lowest between wind speeds of 2-10 mph; however, many factors including droplet size and equipment type determine drift potential at any given speed. Application may be avoided below 2 mph due to variable wind direction and high inversion potential. Do not apply Ryzon 75 DF when wind is blowing more than 8 mph. **Note:** Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect drift.

### Temperature and Humidity

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

### Temperature Inversions

Applications may not occur during a temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small, suspended droplets to remain in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

### Sensitive Areas

This pesticide may only be applied when the potential for drift to adjacent sensitive areas (e.g., residential areas, bodies of water, known habitat for threatened or endangered species, nontarget crops) is minimal (e.g., when wind is blowing away from the sensitive areas).

### RICE

MANA Quinclorac 75 may be used in dry-seeded, water-seeded, and Clearfield® rice plantings and production cultures to control weeds. MANA Quinclorac 75 is a dry flowable formulation to be diluted with water prior to application using common agricultural spray equipment.

Rice is tolerant to MANA Quinclorac 75 when used according to the use directions on this label and when typical growing conditions exist. Under adverse weather conditions or if a higher rate results from spray overlap (or other sources), leaf twisting, buggy whipping, or other abnormal growth characteristics may be observed. Note that broadcast or water-seeded rice seeds sitting on the soil surface that come in direct contact with MANA Quinclorac 75 will be most sensitive and exhibit these abnormal growth characteristics. These symptoms are typically short lived and rice usually recovers without a significant stand loss or other injury.

### Restrictions and Limitations

- **DO NOT** apply more than 0.75 lbs ai/acre per application.
- **DO NOT** apply more than 0.75 lbs ai/acre per season
- **DO NOT** apply MANA Quinclorac 75 to rice that is heading.

#### Preharvest Interval (PHI):

- ❖ **DO NOT** apply MANA Quinclorac 75 within 40 days of harvest.

#### Crop Rotation Restrictions:

- ❖ Rice: In case of crop failure, only rice may be immediately replanted to fields treated with MANA Quinclorac 75.
- ❖ Eggplants and tobacco: **DO NOT** plant for 12 months after application to treated fields.
- ❖ Tomatoes and carrots: **DO NOT** plant for 24 months after application to treated fields.
- ❖ Other Crops: **DO NOT** plant any other crop (other than rice) for 309 days (10 months) after application to treated fields.

**State Specific Restrictions:** Because there are additional state restrictions in Arkansas, contact the Arkansas Plant board or a representative for specific instructions about applying Ryzon 75 DF in Arkansas.

In Arkansas, MANA Quinclorac 75 must not be applied in an area from one mile west of Highway #1 to one mile east of Highway #163 from the Craighead – Poinsett County line to the Cross – Poinsett County line. No aerial application is allowed in the area of Poinsett County one mile west of Highway #1 to two miles west of Highway #1 and one mile east of Highway #163 to Ditch #10, from the Craighead – Poinsett County line to the Cross-Poinsett county line.

#### Soil Restrictions:

- ❖ **DO NOT** use MANA Quinclorac 75 on precision-cut fields until the second rice crop as injury can occur.
- ❖ **DO NOT** use MANA Quinclorac 75 on sand and loamy sand soils.
- ❖ **DO NOT** apply to rice fields with a history of poor water-holding capacity (porous subsoil), as erratic weed control may result.
- ❖ **DO NOT** apply MANA Quinclorac 75 on any rice soil that does not have an impermeable hard pan to provide good water holding capacity.

#### Drift Concerns:

- ❖ **DO NOT** allow MANA Quinclorac 75 to drift outside the intended target areas.
- ❖ Ground application: **DO NOT** apply when wind speeds are greater than 10 mph at the application site.
- ❖ Aerial application: **DO NOT** apply when wind speed is greater than 8 mph.

**Temperature Inversions:** **DO NOT** apply MANA Quinclorac 75 when air temperatures exceed 90°F.

**DO NOT** use rice straw or processing byproducts (such as chaff, hulls, etc.) as soil amendments or mulch for high-value crops such as bedding stock, vegetable transplants, or ornamental and fruit trees.

**DO NOT** use treated rice fields for the aquaculture of edible fish and *Crustacea* (crayfish).

**DO NOT** use water from rice cultivation after a MANA Quinclorac 75 application to irrigate any crop other than rice.

**DO NOT** apply this product through any type of irrigation system.

### Water Management (Irrigation and Flood Water)

To ensure optimum weed control with MANA Quinclorac 75, use proper irrigation practices including effective flush irrigation to maintain moist soil conditions and timely establishment of permanent floodwater.

MANA Quinclorac 75 is a systemic herbicide. The weed foliage and roots absorb MANA Quinclorac 75 and translocates it throughout the weed. Treated weeds will show signs of leaf and stem curling or twisting, stunting, change color from green to white (chlorosis), finally to red, and become necrotic before finally dying. Weeds are controlled only when moist soil conditions exist which help the weeds absorb MANA Quinclorac 75. Therefore, the soil must be kept moist to maintain weed control. If the soil becomes dry and weeds emerge after a MANA Quinclorac 75 application, flush-irrigate the treated field to reactivate the residual activity of the MANA Quinclorac 75 while weeds are small (1" or less).

An additional application of MANA Quinclorac 75 may be made if needed, but do not exceed more than 0.67 pound per acre per season (see **Restrictions and Limitations** section of this label for further limitations). In water-seeded rice plantings and in pinpoint flood culture, drain all water from the rice field and ensure seedling rice has at least two leaves before applying MANA Quinclorac 75. Injury may occur in rice seedlings without 2 leaves. For more consistent weed control, form floodwater levees before making a MANA Quinclorac 75 application. Although MANA Quinclorac 75 provides residual weed control, if the levee soil becomes dry, erratic weed control may result.

**DO NOT** apply MANA Quinclorac 75 if heavy rain is expected. If heavy rain does occur after the application, drain any excess water from the rice field to avoid possible rice injury.

#### **APPLICATION INFORMATION**

MANA Quinclorac 75 may be applied to rice fields to control barnyardgrass, propanil-resistant barnyardgrass, other annual grasses, and certain broadleaf weeds.

**Application Equipment:** Both ground and air applications are permitted; however, whenever possible make applications by ground application.

**DO NOT make spray applications when wind speed is greater than 10 mph at the application site (ground) or 8 mph (air), when air temperatures exceed 90°F, or when environmental conditions exist for temperature inversions.**

Use only nozzles that will produce uniform spray patterns and thorough coverage. Select nozzles designed to produce minimal amounts of fine spray particles. Always use drift control agents and apply only when wind and other weather conditions **DO NOT** favor spray drift beyond the rice field borders.

#### **Ground Application**

Whenever possible, make applications of MANA Quinclorac 75 using ground spray equipment.

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

For preplant/preemergence or delayed preemergence, apply MANA Quinclorac 75 in 10-40 gallons of water per broadcast acre at pressures between 25-40 psi.

For postemergence applications, apply MANA Quinclorac 75 in 10-20 gallons of water per broadcast acre at pressures between 25-40 psi.

#### **Air Application**

If application with ground spray equipment is not possible, application by aircraft is allowed as long as the aerial applicator understands the risks and assumes the liability associated with accidental spray drift from aerial application.

**DO NOT** release spray at a height greater than 10 feet above the crop canopy, unless a higher application height is required for reasons of pilot safety.

Apply as a medium course spray (ASABE Standard 572)

**DO NOT** make spray applications when wind speed is greater than 8 mph, when air temperatures exceed 90°F, or when environmental conditions exist for temperature inversions.

Apply MANA Quinclorac 75 in a minimum of 5 gallons of water per acre at a minimum pressure of 40 psi.

**DO NOT allow MANA Quinclorac 75 to drift outside of the intended target areas.**

**No aerial application** is allowed in Arkansas in the area of Poinsett County one mile west of Highway #1 to two miles west of Highway #1 and one mile east of Highway #163 to Ditch #10, from the Craighead-Poinsett county line to the Cross-Poinsett county line.

**Soil Applications:** Apply MANA Quinclorac 75 to the soil surface before, during, or after planting of dry-seeded rice. Once activated by rainfall or irrigation, the roots of susceptible grasses and broadleaf weeds uptake the herbicide and results in commercially acceptable weed control before weed competition reduces rice productivity. Use rates for MANA Quinclorac 75 will depend on soil texture and clay content for optimum weed control. Refer to Table 1 for application rates for heavier soil textures and higher clay content soil types.

#### **Foliar Applications:**

When MANA Quinclorac 75 is applied to target grass and broadleaf weed foliage in dry-seeded and water-seeded rice, the leaves and stems partially uptake the herbicide. After this foliar application, the rice must be flushed to ensure root absorption of MANA Quinclorac 75. The combination of leaf, stem and root absorption of Ryzon 75 DF results in commercially acceptable weed control.

Some residual weed control activity occurs from the herbicide reaching the soil surface and moving into the soil from rainfall or irrigation. The lower use rates most often control smaller weeds while the higher use rates are needed for larger weeds. Refer to Table 1 for foliar application use rates which will provide commercially acceptable control of susceptible weeds based on weed size or growth stage.

**Table 1. Timing and Application Rate Table** (see **Restrictions and Limitations** section of this label for further limitations):

Weed Species	Soil Applications (Product Rate per Acre)		Foliar Application (Rate lbs AI per Acre)		
	Light-textured sandy loams	Medium-textures silts, loams, silt loams, sandy clay loams	Heavy-textured, such as silty clays, silty clay loams, clay loams, clays, gumbo and buckshot	Small weeds controlled and short-term soil residual	Larger weeds controlled and long-term soil residual
<b>Annual Grasses</b> Barnyardgrass, Broadleaf signalgrass, Junglerice, Large crabgrass	0.33-0.44 pound	0.50 pound	0.75 pound	0.40-0.50 pound up to 2 inches	0.40-0.75 pound up to 3 inches
<b>Broadleaf Weeds</b> Eclipta, Jointvetches species -Indian -Northern Morningglory species - cypressive - entireleaf - ivyleaf - palmleaf - pitted - purple moonflower - tall, (Common) Sesbania, hemp	0.33-0.44 pound	0.50 pound	0.75 pound	0.40-0.50 pound up to 2 leaves	0.50-0.75 pound up to 3 leaves
Alligatorweed (partial control)*	n/a	n/a	n/a	0.67	n/a

\* Rice must be in at least the 2-leaf stage. For best control, establish permanent flood within 2 days after MANA Quinclorac 75 application.

#### ADDITIVES

For postemergence applications only, add 2 pints of crop oil concentrate per acre to spray tank solutions of MANA Quinclorac 75 for improved leaf and stem uptake and enhanced weed control.

**Drift Control Products.** Always add a drift control agent to the spray solution to affect spray droplet size and other characteristics and to reduce the potential of off-target accidental spray drift.

#### DIRECTIONS FOR MIXING MANA QUINCLORAC 75

1. Use only spray tanks that have been cleaned prior to use.
2. Add ¾ the amount of required water to the spray tank while agitating. Maintain constant agitation throughout mixing and application.
3. If an inductor is used, rinse it thoroughly after the component has been added.

Add products to the spray tank in the following order:

- ❖ water-soluble pouches - allow the pouches to dissolve before agitation or adding the next component.
- ❖ water dispersible products (such as wettable powders, suspension concentrates or suspo-emulsions).
- ❖ water-soluble products
- ❖ emulsifiable concentrates
- ❖ water-soluble additives



Add the remaining amount of water to the tank and agitate to ensure a uniform distribution. Continue agitation until spraying is completed. If the spray solution is allowed to settle, re-agitate thoroughly to resuspend the mixture and then continue spray operations.

**Cleaning of Spray Equipment**

Ensure that spray equipment is properly and thoroughly cleaned before and after applying MANA Quinclorac 75. Use a strong detergent or commercial sprayer cleaner and follow the manufacturer's directions for use.

**Cleaning Spray Equipment**

All mixing equipment and all spray equipment should be thoroughly cleaned before and after mixing and applying MANA Quinclorac 75.

**TANK MIXING INFORMATION**

Other registered products such as those listed below may be tank mixed with MANA Quinclorac 75 DF to provide control of a broader spectrum of annual grasses and broadleaf weeds in rice. Before using other products in combination with MANA Quinclorac 75, read and follow the restrictions and limitations and directions for use on all products' labels. The most restrictive labeling applies to tank mixes. Table 2 below describes some weed situations where tank mixing is appropriate.

**Table 2. Tank Mixes**

<b>Weed</b>	<b>Tank Mix Information</b>
Cocklebur	MANA Quinclorac 75: 0.33-0.67 pound & Basagran® herbicide: 1.5-2.0 pints
Dayflower	MANA Quinclorac 75: 0.33-0.67 pound & Basagran® herbicide: 1.5-2.0 pints
Hemp Sesbania	MANA Quinclorac 75: 0.33-0.67 pound & Blazer® herbicide: 0.5-1.0 pint <sup>1</sup> OR MANA Quinclorac 75: 0.33-0.67 pound & Command® 3ME: 0.8-1.6 pints
Sprangletop	MANA Quinclorac 75: 0.33-0.67 pound & Bolero® 8 EC herbicide: 0.5-1.0 pint <sup>2</sup> OR MANA Quinclorac 75: 0.33-0.67 pound & Prowl® H <sup>2</sup> O herbicide: 1.5 to 2.0 pints <sup>3</sup> OR MANA Quinclorac 75: 0.33-0.67 pound & Command® 3ME: 0.8-1.6 pints
Yellow Nutsedge	MANA Quinclorac 75: 0.33-0.67 pound & Basagran® herbicide: 1.5-2.0 pints
Morningglory	MANA Quinclorac 75: 0.33-0.67 pound & Command® 3ME: 0.8-1.6 pints
Heavy infestations of	MANA Quinclorac 75: 0.33-0.67 pound & Storm® herbicide: 1.5 pints

Weed	Tank Mix Information
broadleaf weeds	
For weeds and grasses not controlled by MANA Quinclorac 75	MANA Quinclorac 75: 0.33-0.67 pound & Propanil: 2 to 4 pounds ai
<sup>1</sup> Apply tank mix after rice has reached the 3-leaf stage. <sup>2</sup> Apply tank mix to the soil surface 1-5 days before rice emergence. <sup>3</sup> Apply this tank mix to the soil surface after planting, before rice emerges, and before sprangletop emerges.	

#### STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE:** Store in a cool, dry and well ventilated area. 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:

**Nonrefillable Container (flexible-bag-all weights):** Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment. Then offer for recycling, if available, or dispose of empty bag in a sanitary landfill or by incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**Nonrefillable Container (rigid-fifty lbs or less):** Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 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 or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**Nonrefillable Container (rigid-greater than fifty lbs):** Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 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. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**Refillable Container:** Refillable container. Refill this container with quinclorac only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container

#### LIMITATION OF WARRANTY AND LIABILITY

Read the entire directions for use, conditions of warranties and limitations of liability before using this product. If terms are not acceptable, return the unopened product container at once.

By using this product, user or buyer accepts the following **CONDITIONS, DISCLAIMER OF WARRANTIES** and **LIMITATIONS OF LIABILITY**.

**CONDITIONS:** The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks 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 the manner of use or application, all of which are beyond the control of Makhteshim Agan of North America, Inc. All such risks shall be assumed by the user or buyer.

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