

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

WASHINGTON, D.C. 20460

August 12, 2025

Lisa Mathias Registration Specialist Winfield Solutions, LLC P.O. Box 64589 St. Paul, MN 55164-0589

Subject: Label Amendment - Registration Review Mitigation for Mepiquat Chloride

Product Name: Mepiquat Chloride 4.2% EPA Registration Number: 83222-22 Application Date: March 28, 2018

Case Number: N/A

Dear Lisa Mathias:

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 Mepiquat Chloride 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 and must be used at your next label printing. You must

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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.

Sincerely,

Maryam K. Muhammad-Perch, Team Lead Risk Management and Implementation Branch 4 Pesticide Re-Evaluation Division Office of Pesticide Programs

ENCLOSURE: Stamped label

ACCEPTED

08/12/2025

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

83222-22

MEPIQUAT CHLORIDE 4.2%

[alt. brand name of FLAT TOP MC] Plant Growth Regulator

For Use On Cotton

Active Ingredient:

Mepiquat Chloride: N,N-	dimethylpiperidinium chlori	de4.2%
Other Ingredients:		<u>95.8%</u>
Total		100.0%

^{*}Equivalent to 0.35 pounds of active ingredient per gallon.

KEEP OUT OF REACH OF CHILDREN

CAUTION

FIRST AID				
If in eyes:	Hold eyelid open and rinse slowly and gently with water for 15-20 minutes.			
_	Remove contact lenses, if present, after the first 5 minutes, then continue			
	rinsing eye. Call a poison control center or doctor for treatment advice.			
If swallowed:	Call a poison control center or doctor immediately for treatment advice. Have			
	person sip a glass of water if able to swallow. Do not induce vomiting unless			
	told to do so by a poison control center or doctor. Do not give anything by			
	mouth to an unconscious person.			
If on skin	Take off contaminated clothing. Rinse skin immediately with plenty of water			
or clothing:	for 15-20 minutes. Call a poison control center or doctor for treatment advice.			
Hot Line Number				
Have product container or label with you when calling a poison control center or doctor or going				
for treatment. You may also CONTACT 1-877-424-7452 FOR EMERGENCY MEDICAL				

See booklet for additional Precautionary Statements, Complete Directions for Use, Warranty Disclaimer and Limitation of Liability.

EPA Registration Number: 83222-22

EPA Establishment Number:

NET CONTENTS:

LOT NUMBER:

Manufactured By: Winfield Solutions, LLC P.O. Box 64589 St. Paul, MN 55164-0589

TREATMENT INFORMATION.

2/0806/5

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

Caution. Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. Avoid contact with eyes, skin or clothing.

Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

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

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

Engineering Controls Statement

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticide [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 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

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 when cleaning equipment or disposing of equipment washwaters or rinsate.

Non-Target Organism Advisory: This product may adversely impact the forage and habitat of non-target organisms, including pollinators, in areas adjacent to the treated site. Protect the forage and habitat of non-target organisms by minimizing spray drift.

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, or water, is:

- Coveralls and long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks

SPRAY DRIFT MANAGEMENT

Avoid spray drift. Do not allow this product to drift on to non-target areas. Where states have more stringent requirements they must be observed.

MANDATORY SPRAY DRIFT MANAGEMENT

Aerial Applications:

- Applicators are required to use a <u>medium to coarser</u> droplet size, according to the most current version of the American Society of Agricultural & Biological Engineers Standard 641 (ASABE S641).
- Do not apply when wind speeds exceed 10 miles per hour at the application site.
- Do not apply during temperature inversions.
- Do not release spray at a height greater than 10 feet above the crop canopy, unless a greater application height is necessary for pilot safety.
- The spray boom must be mounted on the aircraft so as to minimize drift caused by wing tip vortices. The boom length must not exceed 75% of the wingspan or 90% of the rotor blade diameter.
- When applying to crops via aerial application equipment, use 1/2 swath displacement upwind at the edge of the field.
- Orient nozzles to the spray is directed toward the back of the aircraft.

Ground Applications:

- Applicators are required to use a <u>medium to coarser</u> droplet size, according to the most current version of the American Society of Agricultural & Biological Engineers Standard 572 (ASAE S572).
- Do not apply when wind speeds exceed 10 miles per hour at the application site.
- Do not apply during temperature inversions.
- When using ground application equipment, apply with nozzle height no more than 3 feet above the ground or crop canopy.

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

An effective way to reduce spray drift is to apply large droplets. Use the largest droplets that provide thorough coverage. While applying larger droplets will reduce spray drift, the potential for drift will be greater if applications are made improperly or under unfavorable environmental conditions.

Controlling Droplet Size - Ground Boom

- **Volume** Increasing the spray volume so that larger droplets are produced will reduce spray drift. Use the highest practical spray volume for the application. If a greater spray volume is needed, consider using a nozzle with a higher flow rate.
- **Pressure** Use the lowest spray pressure recommended for the nozzle to produce the target spray volume and droplet size.
- **Spray Nozzle** Use a nozzle type that is designed for the intended application. Consider using nozzles designed to reduce drift.

Controlling Droplet Size – Aircraft

• **Adjust Nozzles** – Follow nozzle manufacturers recommendations for setting up nozzles. Generally, to reduce fine droplets, nozzles should be oriented parallel with the airflow in flight.

BOOM HEIGHT- Ground Boom

For ground equipment, the boom should remain level with the crop and have minimal bounce.

RELEASE HEIGHT – Aircraft

Higher release heights increase the potential for spray drift.

SHIELDED SPRAYERS

Shielding the boom or individual nozzles can reduce spray drift. Consider using shielded sprayers. Verify that the shields are not interfering with the uniform deposition of the spray on the target area.

TEMPERATURE AND HUMIDITY

When making applications in hot and dry conditions, use larger droplets to reduce effects of evaporation.

TEMPERATURE INVERSIONS

Drift potential is high during a temperature inversion. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. The presence of an inversion can be indicated by ground fog or 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 indicated good vertical air mixing. Avoid applications during temperature inversions.

WIND

Drift potential generally increases with wind speed. AVOID APPLICATIONS DURING GUSTY WIND CONDITIONS. Applicators need to be familiar with local wind patterns and terrain that could affect spray drift.

RUNOFF PREVENTION

To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid run off to water bodies or drainage systems.

I. PRODUCT INFORMATION

MEPIQUAT CHLORIDE 4.2% [FLAT TOP MC] is a foliar applied plant regulator that modifies the cotton plant in several beneficial ways. It allows the grower to manage the cotton plant for **short-season production** leading to reduced risk of yield and quality loss due to delayed and prolonged harvest. Additional benefits derived from the use of this product include:

- height reduction and more canopy
- better early boll retention and/or larger bolls
- less boll rot
- improved defoliation
- reduced trash and lower ginning costs
- better harvest efficiency
- darker green leaf color

These benefits can provide for earlier maturity and may result in improved yields.

Spray Coverage

Under most circumstances, water is the recommended diluent, however, oil is permitted in the following states for ultra low volume (ULV) aerial applications: Alabama, Arkansas, Florida, Georgia, Kansas, Louisiana, Missouri, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, and Texas. Refer to **Air** and **Ground Application** sections for spray volumes.

Regardless of method or gallonage of application, thorough coverage of the cotton foliage is required.

Cleaning Application 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, particularly if a product with the potential to injure crops was used.

II. APPLICATION INSTRUCTIONS

Early Application

On both short-staple and Pima cotton, the grower has the option of low-rate multiple applications (see Table 1) or higher, less frequent applications (see Table 2) which greatly facilitates his management flexibility. The multiple application option gives the producer the ability to discontinue usage of MEPIQUAT CHLORIDE 4.2% [FLAT TOP MC] if any significant stresses occur after an earlier application. In such a case, the total quantity of MEPIQUAT CHLORIDE 4.2% [FLAT TOP MC] used over a season may be reduced. If stress is relieved, the grower has the option of continuing treatments with MEPIQUAT CHLORIDE 4.2% [FLAT TOP MC]. In addition, the rate and timing ranges indicated in the Application Rates and Timings Tables allow the grower to tailor his usage of MEPIQUAT CHLORIDE 4.2% [FLAT TOP MC] to the degree of vegetative vigor in a given field. In areas where insecticides, miticides or foliar fertilizers are frequently applied, the timings are such that tank mixing is often possible. (See section VII. Restrictions and Limitations).

Fields should be carefully scouted and MEPIQUAT CHLORIDE 4.2% [FLAT TOP MC] should not be applied if plants are under severe stress from weather factors, mite, insect or nematode damage, disease

stress, herbicide injury, or fertility stress. In the absence of these stresses, up to 5 low-rate multiple applications can be made each season. After the first application (at matchhead square in the absence of stress), the rate and timing of subsequent applications will depend on vegetative vigor. Under good growing conditions, additional treatments should be made at 7-14 day intervals. However, if new growth at any time is excessive, higher rates of MEPIQUAT CHLORIDE 4.2% [FLAT TOP MC] can be used. If significant loss of squares or young bolls has occurred earlier due to insect pressure or other stresses, but now these stresses have all been alleviated, the need for MEPIQUAT CHLORIDE 4.2% [FLAT TOP MC] is increased – excess vegetative growth is likely because of poor boll load.

Late Season Application

Late application of MEPIQUAT CHLORIDE 4.2% [FLAT TOP MC] (approximately during the fourth to sixth week of blooming) can provide certain benefits to cotton. However, it should not and does not substitute for early season use – the time of the greatest benefit from the use of MEPIQUAT CHLORIDE 4.2% [FLAT TOP MC]. Late season application can lead to one or more of the following:

- reduction in late season vegetative growth or regrowth after cutout or defoliation
- more complete and manageable cutout
- better defoliation
- earlier maturity
- reduction in trash
- lower ginning costs

Some of these effects may favorably influence the yield potential and fiber quality. A late season application of MEPIQUAT CHLORIDE 4.2% [FLAT TOP MC] should be applied only if fields are not drought or nutrient stressed; that is, those fields likely to experience additional vegetative growth or regrowth. However, fields that are very rank and extremely vigorous due to a combination of poor boll load and excellent growing conditions may not respond as much as desired to late season applications at the specified rates.

Timing for Late Season Applications

- On fields where cotton cuts out and then starts regrowth: Apply when regrowth begins, as evidenced by new leaves in the terminal and stem elongation. This application time is often, but not always, 5-6 weeks after the first bloom.
- On fields where cotton never completely cuts out: Apply MEPIQUAT CHLORIDE 4.2% [FLAT TOP MC] when there are 4-6 nodes above the white flower (NAWF). Measure NAWF by counting the number of mainstem nodes from the first position white bloom (the one closest to the mainstem) to the terminal. Count the node with the first position white bloom as zero and the last node in the terminal, which is counted, should have a leaf at least the size of a quarter. Generally, the NAWF first reaches 4-6 nodes during the fourth to sixth week of bloom.

During this time, the NAWF should be decreasing about one node every 5-6 days – if its rate of decrease is less, the plant is not cutting out soon enough (the crop is too vigorous). If the fifth week of bloom arrives and NAWF is still above 5-6, apply **MEPIQUAT CHLORIDE 4.2%** [FLAT TOP MC].

Use Rate for Late Season Application

Apply 8-24 fluid ounces of MEPIQUAT CHLORIDE 4.2% [FLAT TOP MC] per acre. Use the lower rate on cotton with only moderate additional growth potential, and the higher rate on fields likely to continue vigorous growth.

AIR APPLICATION

Spray Volume

- Water as Diluent: Use a minimum of 2 gallons of water per acre in all states except California. In California, use a minimum of 5 gallons of water per acre.
- Oil as Diluent: Use a minimum of 1 quart of oil per acre. When using oil as a diluent, the oil concentrate must contain either a petroleum or vegetable oil base and must meet all of the following criteria:
 - be nonphytotoxic
 - contain only EPA-exempt ingredients
 - provide good mixing quality in the jar test
 - be successful in local experience

The exact composition of suitable products will vary; however, vegetable and petroleum oil concentrates should contain emulsifiers to provide good mixing quality. If the oil does not contain an emulsifier, one must be added during mixing at a volume equal to 3% of the final volume of the mixing tank. Do not apply MEPIQUAT CHLORIDE 4.2% [FLAT TOP MC] by ULV without using emulsifiers. Highly refined vegetable oils have proven more satisfactory than unrefined vegetable oils. For additional information, see Compatibility Test for Mix Components.

GROUND APPLICATION

Spray Volume

• Water as Diluent: Use 2 gallons of spray solution per acre in all states except California. In California, use a minimum of 5 gallons of spray solution per acre.

Table 1. Application Rates and Timings: Low Rate Multiple Applications

The times and rates of application have been carefully researched and the **Directions for Use** must be observed as specified below. See section **VI. Restrictions and Limitations.**

Geographic	Time of Application	Fields with Moderate	Fields with High
Area		Vegetative Vigor:	Vegetative Vigor:
		Rate Per Acre	Rate Per Acre
AL, AR,	First Application: Optimal results will be		
AZ, CA,	achieved when plants are in the matchhead	2 fluid ounces	4 fluid ounces
FL, GA,	square ¹ stage of growth		
KS, LA,			
MO, MS,	Second Application: 7-14 days later, or when	2 fluid ounces	4 fluid ounces
NC, NM,	regrowth occurs.		
OK, SC,			
TN, TX,	Third Application : 7-14 days later, or when	2-4 fluid ounces ²	4-8 fluid ounces ²
VA	regrowth occurs.		
	Fourth Application: 7-14 days later, or when	2-8 fluid ounces ²	4-12 fluid ounces ²
	regrowth occurs.		
		_	_
	Fifth Application (if needed): 7-14 days later, or	4-8 fluid ounces ²	4-12 fluid ounces ²
	when regrowth occurs.		
	Late Season: Refer to Late Season Application	8-16 fluid ounces ²	12-24 fluid ounces ²
	in section II. Application Instructions.		

¹ Matchhead square is when the first square of a typical cotton plant is 1/8-1/4 inches in diameter. The first application should be applied when 50% of the plants have one or more matchhead squares.

² Use higher rates if previous application was not made or if growing conditions are conducive to vigorous growth.

Table 2. Application Rates and Timing: High Rate, Less Frequent Applications
The times and rates of application have been carefully researched and section II. Application Instruction must be observed as specified below. See section VI. Restrictions and Limitations.

Geographic Area	Time of Application	Rate Per Acre
AL, AR, AZ, CA, FL, GA, LA, MO, MS, NM, NC, SC, TN, VA	First Application: Apply MEPIQUAT CHLORIDE 4.2% [FLAT TOP MC] to actively growing cotton that is 20-30" tall, provided cotton is not more than 7 days beyond early bloom stage (5-6 blooms per 25 row feet). If cotton is 24" tall and has no blooms, apply MEPIQUAT CHLORIDE 4.2% [FLAT TOP MC] . Use 8-16 fluid ounces per acre on cotton where excessive vegetative growth is not likely to be a problem, and 16 fluid ounces per acre in areas tending to have excessive vegetative growth.	8-16 fluid ounces
	Second Application for Control of Excessive Vegetative Growth: If the cotton field has a history of vigorous growth or if conditions after the first application of MEPIQUAT CHLORIDE 4.2% [FLAT TOP MC] favor vigorous growth, make a second application 2-3 weeks after the first application.	8-16 fluid ounces
	Third Application for Control of Excessive Vegetative Growth: If the cotton field has a history of vigorous growth or if conditions continue to favor vigorous growth, make a third application 1-2 weeks after the second application.	8-16 fluid ounces
	Late Season Application: Refer to Late Season Application in section II. Application Instructions.	8-24 fluid ounces
KS, OK, TX (except Rio Grande Valley)	Areas Where Excessive Vegetative Growth is Not a Problem First Application: Apply MEPIQUAT CHLORIDE 4.2% [FLAT TOP MC] to actively growing cotton in the early bloom stage (5-6 blooms per 25 row feet). If no blooms are present and the cotton is 20" tall and actively growing, apply MEPIQUAT CHLORIDE 4.2% [FLAT TOP MC].	8 fluid ounces
	Second Application: If conditions after the first application of MEPIQUAT CHLORIDE 4.2% [FLAT TOP MC] favor vigorous growth, make a second application 2-3 weeks after the first application.	8 fluid ounces
	Third Application: If conditions after the second application of MEPIQUAT CHLORIDE 4.2% [FLAT TOP MC] continue to favor vigorous growth, make a third application 1-2 weeks after the second application.	8 fluid ounces
	Late Season Application: Refer to Late Season Application in section II. Application Instructions.	8-24 fluid ounces
KS, OK, TX (including Rio Grande Valley)	Areas Where Excessive Vegetative Growth is a Problem First Application: Apply MEPIQUAT CHLORIDE 4.2% [FLAT TOP MC] to actively growing cotton that is 20-30" tall, provided cotton is not more than 7 days beyond early bloom stage (5-6 blooms per 25 row feet). If cotton is 24" tall and has no blooms, apply MEPIQUAT CHLORIDE 4.2% [FLAT TOP MC].	16 fluid ounces
	Second Application for Control of Excessive Vegetative Growth: If cotton field has a history of vigorous growth, or conditions after the first application of MEPIQUAT CHLORIDE 4.2% [FLAT TOP MC] favor vigorous growth, make a second application 2-3 weeks after the first application.	8-16 fluid ounces
	Third Application: If conditions after the second application of MEPIQUAT CHLORIDE 4.2% [FLAT TOP MC] continue to favor vigorous growth, make a third application 1-2 weeks after the second application.	8-16 fluid ounces
	Late Season Application: Refer to Late Season Application in section II. Application Instructions.	8-24 fluid ounces

III. ADDITIVES

The use of a high quality, EPA exempt surfactant will enhance the uptake of COMPACT into the plant.

Compatibility Test for Mix Components

Add components in the following sequence using 2 teaspoons for each pound or 1 teaspoon for each pint of recommended label 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** 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 MEPIQUAT CHLORIDE 4.2% [FLAT TOP MC]) Cap the jar and invert 10 cycles.
- 5. **Emulsifiable Concentrates** (oil concentrate) 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 fine particles that precipitate to the bottom, not thick (clabbered) texture. Do not use any spray solution that could clog spray nozzles.

IV. MIXING ORDER

- 1. Water: Begin by agitating a thoroughly clean sprayer tank half full of clean water.
- 2. **Products in PVA Bags:** Rinse the tank thoroughly before adding any material in PVA bags as boron residue will prevent adequate mixing. Place the water-soluble PVA bag into the mixing tank. The water-soluble PVA bag will dissolve in water to allow the contents to disperse. Wait until all water-soluble PVA bags have fully dissolved and the plant regulator is evenly mixed in the spray tank before continuing.
 - To prepare spray solution for aerial application, use a mixing tank or mixing vat first to get the product into suspension before transferring suspension to air application equipment.
- 3. Water-Dispersible Products: (dry flowables, wettable-powders, suspension concentrates, or suspo-emulsions).
- 4. Water-Soluble Products
- 5. Emulsifiable Concentrates
- 6. Remaining quantity water.

Only moderate agitation should be used while mixing and transporting.

V. TANK MIXING INFORMATION

MEPIQUAT CHLORIDE 4.2% [FLAT TOP MC] has an aqueous base, and as such, is compatible with most insecticides and miticides. You may combine MEPIQUAT CHLORIDE 4.2% [FLAT TOP MC] with foliar fertilizers if prior experience has shown the original liquid formulation of MEPIQUAT CHLORIDE 4.2% [FLAT TOP MC] to be compatible and noninjurious under your conditions. Always perform a Compatibility Test for Mix Components before preparing a tank mix application.

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 tank mixes.

VI. RESTRICTIONS AND LIMITATIONS

- Maximum seasonal use rate: Do not apply more than a total of 48 fluid ounces (3 pints) of MEPIQUAT CHLORIDE 4.2% [FLAT TOP MC] plant regulator (0.132 pounds a.i.) per acre, per season.
- The sum of all products and formulations containing mepiquat chloride must not exceed **0.132 pounds** of mepiquat chloride per acre per season.
- Preharvest Interval (PHI): Do not apply within 30 days of harvest.
- Restricted Entry Interval (REI): 12 hours
- Do not plant another crop within 75 days of last treatment.
- Stress: Do not apply to cotton plants under severe stress due to adverse weather conditions, mite, insect, or nematode damage, disease, herbicide injury, or fertility stress. If using the low-rate multiple option, discontinue use until the stress is alleviated. Do not apply a single application of 8-16 fluid ounces of MEPIQUAT CHLORIDE 4.2% [FLAT TOP MC] to cotton that is stressed due to lack of soil moisture.
- Do not graze or feed cotton forage to livestock.
- Do not apply through any type of irrigation equipment.
- See the **SPRAY DRIFT MANAGEMENT** section of this label for mandatory and advisory spray drift mitigation measures.

Table 3. Restrictions and Limitations

Crop	Minimum Time from Application to Harvest (PHI)	Maximum Rate Per Acre Per Application	Maximum Rate Per Acre Per Season	Livestock Grazing or Feeding	Aircraft Application
Cotton	30 days	24 fluid ounces (1.5 pints)	48 fluid ounces (3 pints)	No	Yes

STORAGE AND DISPOSAL

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

Pesticide Storage: Do not store below 32° F or above 100° F. Store in a dry place away from heat or open flame.

Pesticide Disposal: Pesticide wastes are toxic. Wastes resulting from this product may be disposed of on site or at an approved waste disposal facility. Improper disposal of excess pesticide spray mix, or rinsate is a violation of Federal law. If these wastes cannot be disposed of according to label instructions, contact the state agency responsible for pesticide regulation of the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container Disposal: Nonrefillable Container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Then offer for recycling, if appropriate, or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Containers 5 gallons or less: 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 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.

FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure or accident, call CHEMTREC 1-800-424-9300.

WARRANTY DISCLAIMER

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