



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

April 5, 2021

Carolyn Miter  
Registrations Specialist  
Albaugh LLC  
PO Box 2127  
Valdosta, GA 31604

Subject: Registration Review Label Mitigation for Mepiquat  
Product Name: MEPIQUAT 23.5% CONCENTRATE  
EPA Registration Number: 42750-215  
Application Date: March 16, 2018  
Decision Number: 572748

Dear Ms. Miter:

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 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.

A copy of your label stamped "Accepted" is enclosed. Products shipped after 12 months from the date of this amendment must bear the new revised label. Your release for shipment of the product bearing the amended label constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6.

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If you have any questions about this letter, please contact Marisa Wright by phone at (703) 347-0463, or via email at [wright.marisa@epa.gov](mailto:wright.marisa@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

# MEPIQUAT 23.5% CONCENTRATE

ACTIVE INGREDIENT: Mepiquat Chloride: N,N-dimethylpiperidinium Chloride . . . . . 23.5%  
OTHER INGREDIENTS: . . . . . 76.5%  
TOTAL: . . . . . 100.0%

Contains two (2) pounds active ingredient per gallon.

## KEEP OUT OF REACH OF CHILDREN

### CAUTION

FIRST AID	
IF SWALLOWED:	<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>▪ Do not induce vomiting unless told to by a poison control center or doctor.</li><li>▪ Do not give anything to an unconscious person.</li></ul>
IF ON SKIN OR CLOTHING	<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>
IF IN EYES:	<ul style="list-style-type: none"><li>▪ Hold eye 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.</li><li>▪ Call a poison control center or doctor for treatment advice.</li></ul>
Have the product container or label with you when calling a poison control center or doctor or going for treatment.	
FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident call CHEMTREC 1-800-424-9300	

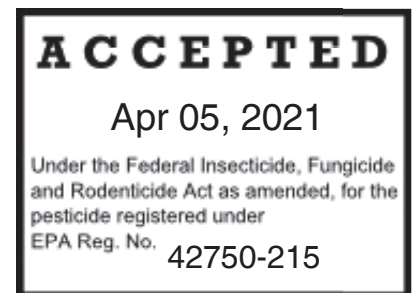
See inside booklet for additional precautionary statements

EPA Reg. No. 42750-215

EPA Est. No. xxxxxx-xx-xxx

NET CONTENTS: \_\_\_\_ Gal.

MANUFACTURED FOR:  
Albaugh, LLC  
Ankeny, IA 50021



**PRECAUTIONARY STATEMENTS**  
**Hazards to Humans and Domestic Animals**

**CAUTION**

Harmful if swallowed or if absorbed through the skin. Avoid contact with skin, eyes or clothing. Causes moderate eye irritation. In case of contact immediately flush eyes or skin with plenty of water. 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**

Some of the materials that are chemical-resistant to this product are listed below. Applicators and other handlers must wear:

1. Long-sleeved shirt and long pants
2. Chemical-resistant gloves made of any waterproof material such as polyethelene or polyvinyl chloride
3. Shoes plus socks

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

**USER SAFETY RECOMMENDATIONS**

Users should:

1. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
2. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
3. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clear, 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 disposing of equipment washwaters.

**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.

**RUNOFF PREVENTION ADVISORY STATEMENT:** 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

## **STORAGE AND DISPOSAL**

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

**PESTICIDE STORAGE:** Store in original container only, in a cool, dry, locked area. Store separately from other pesticides, fertilizers, food or feed to prevent contamination. Do not store below 32°F or above 100°F.

**PESTICIDE DISPOSAL:** Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use 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. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**CONTAINER HANDLING:** Non-refillable containers (1, 2.5, 30 & 55 gallon): Do not reuse or refill this container. Offer for recycling, if available. Triple rinse or pressure rinse container (or equivalent) promptly after emptying.

(non-refillable <5 gallons): 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 rinsates into application equipment or a mix tank or store rinsates for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

(non-refillable >5 gallons): 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. Empty the rinsates into application equipment or a mix tank or store rinsates for later use or disposal. Repeat this procedure two more times.

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

Refillable container (250 gallon & bulk): Refill this container with pesticides 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 the container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsates into application equipment or rinsates collection system. Repeat this rinsing process two more times.

## **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 and restricted-entry intervals. 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:

1. Coveralls.
2. Chemical-resistant made of any waterproof material
3. Shoes plus socks

#### **SPRAY DRIFT REDUCTION**

- Applicators are required to use a medium to coarser droplet size, as defined by ASABE Standard S572.1.
- Do not apply when wind speeds exceed 10 miles per hour at the application site.
- Do not apply during temperature inversions.

When applying by ground:

- Apply with nozzle height no more than 3 feet above the ground or crop canopy.
- Do not apply with airblast equipment

When applying aurally:

- Do not release spray at a height greater than 10 ft 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 so the spray is directed toward the back of the aircraft.

#### **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 target pest control. 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 spray nozzle 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 indicates 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.

### **PRODUCT INFORMATION**

#### **CHEMIGATION PROHIBITION**

Do not apply this product through any type of irrigation system.

MEPIQUAT 23.5% CONCENTRATE is an Albaugh product which is equivalent to PIX CONCENTRATE Plant Regulator produced by BASF Corporation. MEPIQUAT 23.5% CONCENTRATE is a foliar applied plant regulator. 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. Benefits derived from the use of MEPIQUAT 23.5% CONCENTRATE include increased early boll retention and/or larger bolls, reduced plant height which provides a more open canopy/ less boll rot, improved defoliation, less trash and lower ginning costs, better harvest efficiency and a darker leaf color. These benefits can provide for earlier maturity and often result in improved yields.

## **Early Application of MEPIQUAT 23.5% CONCENTRATE**

Growers may use low-rate multiple applications, or higher, less frequent dosages which provide maximum flexibility under a wide range of growing conditions. Do not apply MEPIQUAT 23.5% CONCENTRATE to plants under stress. If stress is alleviated, evaluate plants for vegetative growth before additional applications are made. MEPIQUAT 23.5% CONCENTRATE may be tank mixed with insecticides/miticides when application timings coincide. (See Restrictions and Limitations.)

Fields must be carefully scouted. Do not apply MEPIQUAT 23.5% CONCENTRATE if plants are under any form of stress. In the absence of stress, a maximum of five low rate applications can be made each season. The first application can be applied at the matchhead square stage. The rate and timing of subsequent applications depend on growing conditions and desired benefits. Under good growing conditions additional treatments of 1/3 to 2/3 fl. oz./acre can be made at 7-14 day intervals. Apply higher rates of MEPIQUAT 23.5% CONCENTRATE (2/3 to 2 fl. oz./acre) if vegetative growth becomes excessive or a greater degree of height control is desired. Do not use more than a total of 8.4 fl. oz./acre of MEPIQUAT 23.5% CONCENTRATE in a growing season.

If significant loss of squares and/or young bolls has occurred earlier due to insect pressure or other stresses, but now these stresses have been alleviated, the need for MEPIQUAT 23.5% CONCENTRATE is increased - excess vegetative growth is likely because of poor fruit load.

### Late Season Application of MEPIQUAT 23.5% CONCENTRATE

Late application of MEPIQUAT 23.5% CONCENTRATE (approximately during the fourth to sixth week of blooming) can provide certain benefits to cotton. However, it will not and does not substitute for early season use, the time of the greatest benefit from the use of MEPIQUAT 23.5% CONCENTRATE. 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 and reduction in trash and lower ginning costs. Some of these effects may favorably influence the yield potential and fiber quality. Apply a late season application of MEPIQUAT 23.5% CONCENTRATE 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

A. 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 would often, but not always, be in the period of 5-6 weeks after the first bloom.

B. On fields where cotton never completely cuts out, apply MEPIQUAT 23.5% CONCENTRATE 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 during the fourth to sixth week of bloom. During this time period, the NAWF will be decreasing about one node every 5-6 days - if its rate of decrease is less, this means that 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 23.5% CONCENTRATE.

### Use Rate for Late Season Application



Apply MEPIQUAT 23.5% CONCENTRATE at a rate between 1 1/3 to 4.2 fl. oz. per acre. Use the lower rate range on cotton with only moderate additional growth potential, and the higher rate range on fields likely to continue vigorous growth. Total seasonal use per season (early plus late application) must not exceed 8.4 fl. oz. per acre.

Spray Volumes: Thorough coverage is required.

In Water:

Areas other than California

Ground Application - Use a minimum of 2 gallons of water per acre.

Aerial Application - Use a minimum of 2 gallons of water per acre.

California Only:

Ground application - Use a minimum of 5 gallons/acre

Aerial application - Use a minimum of 5 gallons/acre

IN OIL:

Use a minimum total oil volume of 2 pints/acre for Ultra low volume (ULV) aerial application. Application in oil is permitted only in AL, AR, FL, GA, KS, LA, MO, MS, NC, OK, SC, TN and TX. Use a nonphytotoxic oil concentrate which contains either a petroleum or vegetable oil base, contains only EPA-exempt ingredients, provides good mixing quality in the jar test (see "Compatibility" section), and has been used successfully in your locality. The oil diluent must contain emulsifiers which 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 23.5% CONCENTRATE as ULV without using emulsifiers. If using a vegetable oil based product, use only highly refined concentrates.

Mix under constant agitation. Pour one-half of the required volume of oil into the spray tank, followed by the emulsifier (if the oil does not already contain one) at approximately 3% of the final spray tank volume, and then pour in the MEPIQUAT 23.5% CONCENTRATE while the remainder of the oil is added. Constant agitation is required during and after mixing and during application.

### **RAIN WASH-OFF PRECAUTION**

The use of a high quality, EPA exempt surfactant will enhance the uptake of MEPIQUAT 23.5% CONCENTRATE into the plant. Therefore, the use of a surfactant allows applications made as little as four hours prior to rainfall to be effective. Without a surfactant, the product should be used at least 8 hours prior to expected rainfall.

### **COMPATIBILITY**

MEPIQUAT 23.5% CONCENTRATE is water based, and is compatible with most insecticides and miticides. If compatibility is in doubt, perform a jar test to check for compatibility. MEPIQUAT 23.5% CONCENTRATE can be used with foliar fertilizers if your experience shows the combination is compatible and will not injure cotton under your conditions. Caution must be used when applying with foliar fertilizers under conditions of extreme heat.

### **RESTRICTIONS AND LIMITATIONS**

- Insect or mite damage to MEPIQUAT 23.5% CONCENTRATE treated crops can lead to yield decreases or other undesirable effects.

- Do not apply MEPIQUAT 23.5% CONCENTRATE to cotton that is under stress. If using the low rate multiple applications, discontinue use until your crop has overcome any stress.
- Do not apply more than 8.4 fl. oz. of MEPIQUAT 23.5% CONCENTRATE per acre per season. The sum of all products and formulations containing mepiquat chloride must not exceed 0.132 pounds (60 grams) of mepiquat chloride per acre per season.
- Do not apply this product within 30 days of harvest.
- Do not graze or feed cotton forage to livestock.
- MEPIQUAT 23.5% CONCENTRATE contains a dye and effectiveness is not related to the color of the spray solution.
- Do not tank mix with other products other than those mentioned under "Compatibility".
- Do not plant another crop within 75 days after last treatment.

**TIME AND RATE OF APPLICATION:**

**SHORT-STAPLE AND LONG STAPLE (PIMA) COTTON**

Directions for use must be observed as specified below:

I. HIGH RATE SINGLE OR MULTIPLE APPLICATIONS:

Use these instructions when you are not able to start growth regulation treatments early, or when you want to make the fewest number of applications.

AREA	TIME OF APPLICATION	RATE PER ACRE
	<b>FIRST APPLICATION:</b>	
AL, AR AZ, CA, FL, GA, LA, MO, MS, NM, NC, SC, TN, VA	Apply when cotton is actively growing and is between 20" and 30" tall, but not more than 7 days beyond early bloom (5-6 blooms per 25 row feet) . Also apply if cotton is 24" tall and has no blooms.	1 1/3 to 2 2/3 fl. oz.
	Use the 1 1/3 fl. oz. rate on cotton where excessive vegetative growth is not expected and use 2 2/3 fl. oz. where excessive vegetative growth has historically occurred.	
	See Restrictions and Limitations.	
	<b>SECOND APPLICATION:</b>	
	Make a subsequent application in 2 to 3 weeks if additional growth is desired.	1 1/3 to 2 2/3 fl. oz.

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, apply a third application 1 to 2 weeks after the second application.

1 1/3 to 2 2/3 fl. oz.

LATE SEASON APPLICATION:

See section titled "Late Season Application of MEPIQUAT 23.5% CONCENTRATE".

1 1/3 to 4.2 fl. oz.

Areas without a history of excessive vegetative growth:

FIRST APPLICATION:

KS, OK, TX  
(except Rio Grande Valley)

Apply when cotton is in the early bloom stage (5-6 blooms per 25 row feet) and actively growing. Also apply if no blooms are present and the cotton is 20" tall and actively growing.

1 1/3 fl. oz.

See Restrictions and limitations.

SECOND APPLICATION:

Make a second application in 2 to 3 3 to 4 weeks if additional growth control is desired.

1 1/3 fl. oz.

THIRD APPLICATION:

If conditions after the second application of MEPIQUAT 23.5% CONCENTRATE continue to favor vigorous growth, apply a third application 1 to 2 weeks after the second application.

1 1/3 fl. oz.

LATE SEASON APPLICATION:

See section titled "Late Season Application of MEPIQUAT 23.5% CONCENTRATE".

1 1/3 to 4.2 fl. oz.

Areas with a history of excessive vegetative growth:

FIRST APPLICATION:

KS, OK, TX

For best results, apply when plants are in early bloom stage (5-6 blooms per 25 row feet) and an average of 24" tall. Treatments can also be made when cotton height averages a

2 2/3 fl. oz.

minimum of 20" and a maximum of 30" provided cotton is not more than 7 days beyond early bloom. If cotton is 24" tall and has no blooms, apply MEPIQUAT 23.5% CONCENTRATE. See Restrictions and Limitations.

**SECOND APPLICATION:**

For fields with a history of excessive growth, or if conditions after the first application favor excessive growth, make a second application in 2 to 3 weeks.

1 1/3 to 2 2/3 fl. oz.

**THIRD APPLICATION:**

If conditions after the second application of MEPIQUAT 23.5% CONCENTRATE continue to favor vigorous growth, apply a third application 1 to 2 weeks after the second application.

1 1/3 to 2 2/3 fl. oz.

**LATE SEASON APPLICATION:**

See section titled "Late Season Application of MEPIQUAT 23.5% CONCENTRATE".

1 1/3 to 4.2 fl. oz.

**II. LOW RATE MULTIPLE APPLICATIONS:**

Use these instructions when you want to maintain maximum flexibility in plant regulation treatments.

AREA	TIME OF APPLICATION	EXCESSIVE Growth Not Expected or Lower Rates Have Worked in the Past.	EXCESSIVE Growth Expected or Higher Rates Have Been Necessary in the Past.
AL, AR, AZ, CA, FL, GA, LA, MO, MS, NC, NM, KS, OK, SC, TN, TX, VA	<b>FIRST APPLICATION:</b> Apply at the matchhead square <sup>1</sup> stage of growth.	1/3 FL OZ	2/3 FL OZ
	<b>SECOND APPLICATION:</b> 7 – 14 days later, or when regrowth occurs.	1/3 FL OZ	2/3 FL OZ
	<b>THIRD APPLICATION:</b> 7-14 days later, or when regrowth occurs.	1/3 TO 2/3 FL OZ*	2/3 TO 1 1/3 FL OZ

**FOURTH APPLICATION:**7-14 days later, or  
when regrowth occurs.1/3 TO  
1 1/3  
FL OZ\*2/3 TO  
2  
FL OZ\***FIFTH APPLICATION:**(If needed): 7-14 days  
later, or when regrowth  
occurs.2/3 TO  
1 1/3 FL OZ\*2/3 TO  
2 FL OZ\***LATE SEASON APPLICATION:**See section titled "Late  
Season Application of  
MEPIQUAT 23.5%  
CONCENTRATE".1 1/3 TO  
2 2/3 FL OZ\*2 TO  
4.2 FL OZ\*

\* Use the higher rate if previous application was not made or if growing conditions favor excessive growth.

<sup>1</sup> Matchhead square is when the first square of a typical cotton plant is about the size of a matchhead (about 1/8 - 1/4" in diameter) . Make the first application when 501 of the plants have one- or more matchhead squares.

**CONVERSION CHART**

RATE OF MEPIQUAT 23.5% CONCENTRATE	ACRES TREATED PER			EQUIVALENT RATE OF MEPIQUAT CHLORIDE 4.2 OR PIX
	PINT	QUART	GALLON	
1/3 fl. oz.	48	96	384	1/8 pint/acre
2/3 fl. oz.	24	48	192	1/4 pint/acre
1 1/3 fl. oz.	12	24	96	1/2 pint/acre
2 fl. oz.	8	16	64	3/4 pint/acre
2 2/3 fl. oz.	6	12	48	1 pint/acre
4.2 fl. oz.	3.8	7.6	30.4	1 1/2 pints/acre

PIX is a trademark of BASF

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