



U.S. Environmental Protection Agency

Office of Chemical Safety and Pollution Prevention Office of Pesticide Programs Registration Division (7504P) 1200 Pennsylvania Ave., N.W. Washington, DC 20460

NOTICE OF PESTICIDE:

X Registration Reregistration (under FIFRA, as amended) **EPA Reg. Number:**

72693-3

Date of

1SEPce 9 2011

Term of Issuance: Unconditional

Name of Pesticide Product:

Mepiquat Chloride

Name and Address of Registrant (include ZIP Code): Universal Crop Protection Alliance, LLC c/o Pyxis Regulatory Consulting 4110 136th St. NW Gig Harbor, WA 98332

Mailed to: Ross Gilbert Agent

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

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

This product is conditionally registered in accordance with FIFRA section 3(c)(5) provided that you:

1. Submit and/or cite all data required for registration of your product under FIFRA sec 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.

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Signature of Approving Official:

Date:

SEP 0 9 2011

Joyner, Product Manager (20)

Fungicide Branch/Registration Division/OPP/OCSPP (7504P)

Notice of Pesticide Registration
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ĖPA Form 8570-6

- 2. Make the following change to the label:
 - a. Change the product registration number to "EPA Reg. No. 72693-3"
- 3. Submit one copy of the revised final printed label for the record before the product is released for shipment.

Your release for shipment of the product constitutes acceptance of these conditions.

A copy of the label stamped "Accepted" is enclosed for your records.

Shaja B. Joyner Product Manager (20) Fungicide Branch Registration Division (7504P)

Enclosure:

Label stamped "Accepted"

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MEPIQUAT CHLORIDE 4.2

For Use On Cotton

SEP 0 9 2011

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

ACTIVE INGREDIENT:

| Mepiquat Chloride: N,N-dimethylpiperidinium chloride | 4.2% |
|--|--------|
| OTHER INGREDIENTS | |
| TOTAL | 100.0% |

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

KEEP OUT OF REACH OF CHILDREN CAUTION

Refer to inside of label booklet for additional Precautionary Statements, First Aid Statements, Worker Protection Statements, Directions for Use, Storage and Disposal Instructions, and Conditions of Sale and Warranty.

| | FIRST AID | | |
|-----------------|---|--|--|
| If in eyes: | 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 | | |
| | 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 the poison control center or doctor. | | |
| · | Do not give anything by mouth to an unconscious person. | | |
| lf on skin or | Take off contaminated clothing. | | |
| clothing: | Rinse skin immediately with plenty of water for 15-20 minutes. | | |
| | Call a poison control center or doctor for treatment advice. | | |
| HOT LINE NUMBER | | | |

HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For 24 Hour Medical Emergency Assistance (Human or Animal) call 1-800-308-1241 or for Chemical Emergency Assistance (Spill, Leak, Fire or Accident) call CHEMTREC at 1-800-424-9300.

EPA Reg. No. 72693-

EPA Est. No.

Manufactured for: Universal Crop Protection Alliance, LLC 1300 Corporate Center Drive Eagan, MN 55121 (651) 239-1000

Net Contents:

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)

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category A on an EPA chemical-resistant category selection chart.

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves (such as Nitrile, Butyl, Neoprene and/or Barrier Laminate)
- 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 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 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.

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.

All applicable directions, restrictions, precautions, and Conditions of Sale and Warranty are to be followed. This labeling must be in the user's possession during application.

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 Protections 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 Protections Standard that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls
- Chemical-resistant gloves made of any waterproof material
- Shoes plus socks

INFORMATION

Mepiquat Chloride 4.2 is a foliar-applied plant regulator that modifies the cotton plant in several beneficial ways. It is the only such compound that 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. The use of Mepiquat Chloride 4.2 will also result in several or all of the following:

- Height reduction and more open canopy
- Better early boll retention and/or larger bolls
- Less boll rot
- Improved defoliation

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- Reduced trash and lower ginning costs
- · Better harvest efficiency
- Darker green leaf color

Most of these effects often favorably influence the yield potential of the cotton plant. The pink color of Mepiquat Chloride 4.2 may fade under some conditions; however, effectiveness is not related to color of spray solution or the color of Mepiquat Chloride 4.2.

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, 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.

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 dosages (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 if any significant stresses occur after an earlier application. In such a case, the total quantity of Mepiquat Chloride 4.2 used over a season may be reduced. If stress is relieved, the grower has the option of continuing treatments with Mepiquat Chloride 4.2. In addition, the rate and timing ranges indicated in the **Application Rates and Timing Tables** allow the grower to tailor his usage of Mepiquat Chloride 4.2 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 Restrictions and Limitations section**)

Fields should be carefully scouted and Mepiquat Chloride 4.2 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 at 7-14 day intervals. However, if new growth at any time is excessive, higher rates of Mepiquat Chloride 4.2 can be used.

If significant loss of squares or young bolls has occurred early due to insect pressure or other stresses, but now these stresses have been alleviated the need for Mepiquat Chloride 4.2 is increased – excess vegetative growth is likely because of poor fruit load.

Late Season Application

Late application of Mepiquat Chloride 4.2 (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. 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
- Early maturity
- Reduction in trash
- Lower ginning cost

Some of these effects may favorably influence the yield potential and fiber quality. A late season application of Mepiquat Chloride 4.2 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 suggested 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 where there are 4-6 nodes above the white flower (NAWF) Measure NAWF by counting 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.

Use Rate for Late Season Application

Apply 8-24 fluid ounces of Mepiquat Chloride 4.2 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 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, 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 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.

Aerial Application Methods and Equipment 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. The following drift management requirements must be followed to avoid off-target drift movement from aerial applications to agricultural field crops. These requirements do not apply to forestry applications, public health uses or to applications using dry formulations.

- 1. The distance of the outer most nozzles on the boom must not exceed 3/4 the length of the wingspan or rotor.
- 2. Nozzles must always point backward parallel with the air stream and never be pointed downward more than 45 degrees. Where states have more stringent regulations, they should be observed.

The applicator should be familiar with and take into account the information covered in the publication titled <u>A Summary of Aerial Application Studies</u> by the Spray Drift Task Force.

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 section 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. Use a minimum of 5 gallons of water per acre. Increase water volume to at least 10 gallons of water per acre if grass foliage or crop canopy is dense.

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 up to 40 psi.

Number of nozzles – Use the minimum number of nozzles that provide uniform coverage.

Nozzle orientation – Orienting nozzles so that the spray is released backward, parallel to the airstream, will produce larger droplets than other orientations. Significant deflection from the 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. Solid stream nozzles oriented straight back produce larger droplets than other nozzle types. Use only diaphragm-type nozzles that produce fan spray patterns.

Boom Length – For some use patterns, reducing the effective boom length to less than 3/4 of the wingspan or rotor length may further reduce drift without reducing swath width.

Application – Applications should be made at a height greater than 10 feet above the top of the largest plants. 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 cross-wind, 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 types, determine drift potential at any given speed. Application should be avoided below 2 mph due to variable wind direction and high inversion potential. Do not apply Mepiquat Chloride 4.2 by aircraft when wind is blowing more than 10 mph. **Note:** Local terrain can influence wind patterns and how they affect drift.

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

Temperature Inversions – Applications should 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 – The pesticide should 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). Do not apply this product by air if sensitive species are within 200 feet downwind.

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

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

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

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

Table 2. Application Rates and Timing

The times and rates of application have been carefully researched and **Application Instructions** should be observed as specified below. See **Restrictions and Limitations** section.

| 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 to actively growing cotton that is 20-30 inches tall, provided cotton is not more than 7 days beyond early bloom stage (5-6 blooms per 25 row feet). If cotton is 24 inches tall and has no blooms, apply Mepiquat Chloride 4.2. 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 favor vigorous growth, make a second application 2-3 weeks after the first application. | |
| | Third application for control of excessive vegetative growth: If the cotton field has a history of vigorous growth or if conditions | 8-16 fluid ounces |

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

| Geographic Area | Time of Application | Rate Per Acre | |
|---|--|--------------------|--|
| continue to favor vigorous growth, make a third application weeks after the second application. | | | |
| | Late season application: Refer to Late Season Application in section under Application Instructions. | 8 -24 fluid ounces | |
| OK, TX (except Rio Grande Valley) | Areas where excessive vegetative growth is not a problem First Application: Apply Mepiquat Chloride 4.2 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 inches tall and actively growing, apply Mepiquat Chloride 4.2. | 8 fluid ounces | |
| | Second Application: If conditions after the first application of Mepiquat Chloride 4.2 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 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 under Application Instructions. | 8-24 fluid ounces | |
| OK, TX (including Rio Grande Valley) | Areas where excessive vegetative growth is a problem First application: Apply Mepiquat Chloride 4.2 to actively growing cotton that is 20-30 inches tall, provided cotton is not more than 7 days beyond early bloom stage (5-6 blooms per 25 row feet). If cotton is 24 inches tall and has no blooms, apply Mepiquat Chloride 4.2. | 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 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 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 under Application Instructions. | 8-24 fluid ounces | |

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 per acre.

Additives

If rain is expected within 8 hours, use a high-quality, EPA-exempt surfactant to make Mepiquat Chloride 4.2 rain-safe after 4 hours.

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) or 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) Cap the jar and invert 10 cycles.
- 5) Emulsifiable concentrates: oil concentrate, Cap the jar and invert 10 cycles.

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- 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, nor thick (clabbered) texture. Do not use any spray solution that could clog spray nozzles.

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.

Tank Mixing Information

Mepiquat Chloride 4.2 has an aqueous base, and as such, is compatible with most insecticides and miticides. You may combine Mepiquat Chloride 4.2 with foliar fertilizers if prior experience has shown the original liquid formulation of Mepiquat Chloride 4.2 to be compatible and non-injurious 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.

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 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. This maximum equals **48 fluid ounces (3 pints)** of Mepiquat Chloride **4.2 (0.35 pounds a.i. per gallon)**.
- 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 lowrate 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 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.

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 or 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.

(Nonrefillable container ≤ 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 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available 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.

(Nonrefillable > 5 gallons): Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. 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 if available 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.

CONDITION OF SALE AND WARRANTY

The DIRECTIONS FOR USE of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with 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 UNIVERSAL CROP PROTECTION ALLIANCE, LLC, its Supplemental Distributors, or the Seller. All such risks shall be assumed by the Buyer.

UNIVERSAL CROP PROTECTION ALLIANCE, LLC, its Supplemental Distributors and the Seller warrant that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the Directions for Use subject to the inherent risks referred to above. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, NEITHER UNIVERSAL CROP PROTECTION ALLIANCE, LLC NOR ITS SUPPLEMENTAL DISTRIBUTORS MAKE ANY OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE OR OF MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THIS WARRANTY DOES NOT EXTEND TO, AND THE BUYER SHALL BE SOLELY RESPONSIBLE FOR.

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ANY AND ALL LOSS OR DAMAGE WHICH RESULTS FROM THE USE OF THIS PRODUCT IN ANY MANNER WHICH IS INCONSISTENT WITH THE LABEL DIRECTIONS.

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