



U.S. ENVIRONMENTAL PROTECTION AGENCY

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

EPA Reg. Number:

34704-1202

Date of Issuance:

7/29/26

NOTICE OF PESTICIDE:

☒ Registration
☐ Reregistration
(under FIFRA, as amended)

Term of Issuance:

Unconditional

Name of Pesticide Product:

LPI 6819-1

Name and Address of Registrant (include ZIP Code):

Loveland Products, Inc.
PO Box 1286
Greeley, CO 80632- 1286

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

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA).

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

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

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

Continues page 2

Signature of Approving Official:

Kristy Crews, PhD., Product Manager 22
Fungicide Branch, Registration Division (7505T)

Date:

7/29/26

2. Make the following label changes before you release the product for shipment:
 - Revise the EPA Registration Number to read, "EPA Reg. No. 34704-1202."
3. Submit one copy of the final printed label for the record before you release the product for shipment.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) lists examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

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

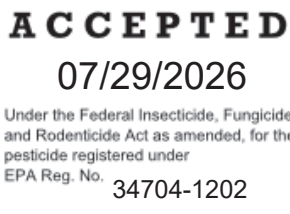
The alternate brand names "Potenza® HL", "Potenza® XL", and "Potenza® XC" have been added to the product record.

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

- Basic CSF dated 04/01/2025
- Alternate CSF 1 and 2 dated 04/01/2025

If you have any questions, please contact Yasmin Bowers at 202-566-2507 or Bowers.Yasmin@epa.gov.

Enclosure- Stamped Label



LPI 6819-1

Alternate Brand Names: Potenza® HL, Potenza® XL, Potenza® XC

ACTIVE INGREDIENTS:	By Wt.
Mepiquat Chloride:	
N, N-dimethylpiperidinium chloride*:(CAS No.4307-26-4).....	16.800 %
Indolebutyric acid:(CAS No. 133-32-4).....	0.240 %
Kinetin:(CAS No. 525-79-1)	0.012 %
OTHER INGREDIENTS:	<u>82.948 %</u>
TOTAL:	<u>100.000%</u>

*Equivalent to 1.42 Pounds Mepiquat Chloride Per Gallon

KEEP OUT OF REACH OF CHILDREN

CAUTION

**Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.
(If you do not understand the label, find someone to explain it to you in detail.)**

{Note to Reviewer: a referral statement applicable to the type of packaging will be used.}

See [Below] [Inside] [This] [Label] [Booklet] [[Back][Side] Panel] [For] [First Aid] [Additional] [Precautionary Statements][,] [additional] [First Aid][/] [Spanish First Aid][,] [and] [Environmental Hazards] [,] [and] [Directions for Use] [(including) [Mitigations for Endangered Species)][,][and] [Storage and Disposal] [Instructions]) [,] [and] [Other] [Required] [Spanish] [Labeling] [and] [Other] [Use Information] [.]

FOR A MEDICAL EMERGENCY OR HELP WITH ANY SPILL, LEAK, FIRE OR EXPOSURE INVOLVING THIS MATERIAL, CALL DAY OR NIGHT CHEMTREC 1-800-424-9300.

EPA Reg. No. 34704-RENE

EPA Est. No.

Net Contents: GAL (L)

[Print Code(s) [May be placed anywhere on label]

[FORMULATED] [MANUFACTURED] FOR:

LOVELAND PRODUCTS, INC.

P.O. BOX 1286

GREELEY, COLORADO 80632-1286

FIRST AID	
If in eyes:	Hold eye open and rinse slowly and gently with water for 15 to 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 by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
If on skin or clothing:	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.
If Inhaled	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.
Have the product container or label with you when calling a poison control center or doctor or going for treatment.	
For Medical Emergencies or for Chemical Spill, Leak, Fire, Accident or Exposure, Call CHEMTREC at 1-800-424-9300.	

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if swallowed or absorbed through the 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,
- Chemical-resistant gloves made of barrier laminate, butyl rubber ≥14 mils, nitrile rubber ≥14 mils, neoprene rubber ≥14 mils, natural rubber ≥14 mils, polyethylene, polyvinyl chloride (PVC) ≥14 mils, or Viton ≥14 mils.
- Shoes, plus socks.

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

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

Engineering Controls Statement:

When handlers used closed systems, enclosed cabs, or aircraft in a manner that requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

USER SAFETY RECOMMENDATIONS

Users Should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside, then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

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.

Non-target Organism Advisory Statement

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,
- Chemical-resistant gloves made of barrier laminate, butyl rubber ≥14 mils, nitrile rubber ≥14 mils, neoprene rubber ≥14 mils, natural rubber ≥14 mils, polyethylene, polyvinyl chloride (PVC) ≥14 mils, or Viton ≥14 mils.
- Shoes plus socks.

PRODUCT INFORMATION

LPI 6819-1 is a foliar applied plant regulator that modifies the cotton plant in several beneficial ways. This compound 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 LPI 6819-1 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
- Reduced trash and lower ginning costs

LPI 6819
[EPA Reg. No. 34704- RENE]

- Better harvest efficiency
- Darker green leaf color

Most of these effects often favorably influence the yield potential of the cotton plant. [The purple color of LPI 6819-1 may fade under some conditions; however, effectiveness is not related to color of spray solution or the color of LPI 6819-1.]

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-rate, less frequent dosages (see Table 2), which greatly facilitates management flexibility. The multiple application option gives the grower the ability to discontinue usage of LPI 6819-1 if any significant stresses occur after an earlier application. In such a case, the total quantity of LPI 6819-1 applied during one crop year may be reduced. If stress is relieved, the grower has the option of continuing treatments with LPI 6819-1. In addition, the rate and timing ranges indicated in the **Application Rates and Timing Tables** allow the grower to tailor usage of LPI 6819-1 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 **General Restrictions and Limitations**).

Fields should be carefully scouted and LPI 6819-1 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 five low-rate multiple applications can be made each year. (Never apply more than 12.0 fluid ounces (0.75 pints) of LPI 6819-1 per acre per year (0.132 pounds of mepiquat chloride per acre per year.))

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- to 14-day intervals. However, if new growth at any time is excessive, higher rates of LPI 6819-1 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 been alleviated, the need for LPI 6819-1 is increased - excess vegetative growth is likely because of poor fruit load.

Late Season Application

Late application of LPI 6819-1 (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 LPI 6819-1.

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 LPI 6819-1 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 to 6 weeks after the first bloom.
- **On fields where cotton never completely cuts out:** Apply LPI 6819-1 when there are 4 to 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 to 6 nodes during the fourth to sixth week of bloom. During this time, the NAWF should be decreasing about one node every 5 to 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 to 6, apply LPI 6819-1.

Use Rate for Late Season Application

Apply 2.0 to 6.0 fluid ounces of LPI 6819-1 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 2.0 gallons of spray solution per acre in all states except California. In California use a minimum of 5.0 gallons per acre.
- **Oil as Diluent:** Use a minimum of 1.0 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

LPI 6819
[EPA Reg. No. 34704- RENE]

be added during mixing at a volume equal to 3% of the final volume of the mixing tank. Do not apply LPI 6819-1 in a ULV application without using emulsifiers. Highly refined vegetable oils have proven more satisfactory than unrefined vegetable oils. For additional information, **see Compatibility Test for Mix Components**.

SPRAY DRIFT

Aerial Applications:

- 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 ½ swath displacement upwind at the edge of the field.
- Orient nozzles so the spray is directed toward the back of the aircraft.

Ground Applications:

- Apply with the nozzle height recommended by the manufacturer, but no more than 3 feet above the ground or crop canopy.
- When applying via airblast, turn off outward spraying nozzles on the outside row of the vineyard. In addition, applications must be directed into the canopy foliage. Applications must not be made over the top of the canopy.

Aerial and Ground Applications:

- Applicators are required to use a Medium or coarser droplet size (ASABE S572.1) for all applications.
- Do not apply when wind speeds exceed 10 miles per hour at the application site.
- Do not apply during temperature inversions.

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.

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.

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 Table 4 for fl oz rate in lbs mepiquat chloride per acre.

Geograph ic Area	Time of Application	Fields with Moderate Vegetative Vigor: Use Rate fl oz / acre	Fields with High Vegetative Vigor: Use Rate fl oz / acre
AL, AR, AZ, CA, FL, GA, IL, KS, LA, MO, MS, NC, NM, OK, SC, TN, TX, VA	First application: Optimal results will be achieved when plants are in the matchhead square** stage of growth.	0.5	1.0
	Second application: 7- to 14- days later, or when regrowth occurs.	0.5	1.0
	Third application: 7- to 14 days later, or when regrowth occurs.	0.5 to 1.0*	1.0 to 2.0*
	Fourth application: 7- to 14- days later, or when regrowth occurs.	0.5 to 2.0 *	1.0 to 3.0*
	Fifth application (if needed): 7- to 14- days later, or when regrowth occurs.	1.0 to 2.0 *	1.0 to 3.0*
	Late season: Refer to Late Season Application of LPI 6819-1	2.0 to 4.0*	3.0 to 6.0*

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

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

RESTRICTIONS AND LIMITATIONS

- **Maximum Yearly Use Rate:** The sum of all products and formulations containing mepiquat chloride must not exceed **0.132 pounds** of mepiquat chloride per acre per year. For LPI 6819-1 that is a max of **12.0 fluid ounces (0.75 pints)** per acre per year.
- **Maximum Rate Per Acre Per Application:** 6 fl oz (0.375 pints) (0.07 lbs mepiquat chloride)
- **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 2.0 to 4.0 fluid ounces of LPI 6819-1 to cotton that is stressed due to a lack of soil moisture.
- Do not graze or feed cotton forage to livestock.
- Do not apply through any type of irrigation equipment.

LPI 6819
[EPA Reg. No. 34704- RENE]

Table 2. Application Rates and Timing: Higher-Rate, Less Frequent Applications

The times and rates of application have been carefully researched and the section **Application Instructions** should be observed as specified below. See Table 4 for fl oz rate in lbs mepiquat chloride per acre.

Geographic Area	Time of Application	Use Rate fl oz / acre
AL, AR, AZ, CA, FL, GA, IL, KS, LA, MO, MS, NM, NC, OK, SC, TN, VA	First application: Apply LPI 6819-1 to actively growing cotton that is 20 to 30 inches tall, provided cotton is not more than 7 days beyond early bloom stage (5 to 6 blooms per 25 row feet). If cotton is 24 inches tall and has no blooms, apply LPI 6819-1. Use 2.0 to 4.0 fluid ounces per acre on cotton where excessive vegetative growth is not likely to be a problem, and 4.0 fluid ounces per acre in areas tending to have excessive vegetative growth.	2.0 to 4.0
	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 LPI 6819-1 favor vigorous growth, make a second application 2 to 3 weeks after the first application.	2.0 to 4.0
	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 to 2 weeks after the second application.	2.0 to 4.0
	Late season application: Refer to Late Season Application in section Application Instructions	2.0 to 6.0

[Table Continued [below][next page][next column].]

LPI 6819
[EPA Reg. No. 34704- RENE]

[Table 2 [Continued]. Application Rates and Timing: Higher-Rate, Less Frequent Applications

The times and rates of application have been carefully researched and the section **Application Instructions** should be observed as specified below. See Table 4 for fl oz rate in lbs mepiquat chloride per acre.]

Geographic Area	Time of Application	Use Rate fl oz / acre
OK, TX (except Rio Grande Valley)	Areas where excessive vegetative growth is not a problem. First application: Apply LPI 6819-1 to actively growing cotton in the early bloom stage (5 to 6 blooms per 25 row feet). If no blooms are present and the cotton is 20 inches tall and actively growing, apply LPI 6819-1.	2.0
	Second application: If conditions after the first application of LPI 6819-1 favors vigorous growth, make a second application 2 to 3 weeks after the first application.	2.0
	Third application: If conditions after the second application of LPI 6819-1 continue to favor vigorous growth, make a third application 1 to 2 weeks after the second application.	2.0
	Late season application: Refer to Late Season Application in section Application Instructions	2.0 to 6.0
OK, TX (Including Rio Grande Valley)	Areas where excessive vegetative growth is a problem. First application: Apply LPI 6819-1 to actively growing cotton that is 20 to 30 inches tall, provided cotton is not more than 7 days beyond early bloom stage (5 to 6 blooms per 25 row feet). If cotton is 24 inches tall and has no blooms, apply LPI 6819-1.	4.0
	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 LPI 6819-1 favor vigorous growth, make a second application 2 to 3 weeks after the first application.	2.0 to 4.0
	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 to 2 weeks after the second application.	2.0 to 4.0
	Late season application: Refer to Late Season Application in section Application Instructions	2.0 to 6.0

RESTRICTIONS AND LIMITATIONS

- **Maximum Yearly Use Rate:** The sum of all products and formulations containing mepiquat chloride must not exceed **0.132 pounds** of mepiquat chloride per acre per year. For LPI 6819-1 that is a max of **12.0 fluid ounces (0.75 pints)** per acre per year.
- **Maximum Rate Per Acre Per Application:** 6 fl oz (0.375 pints) (0.07 lbs mepiquat chloride)
- **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 2.0 to 4.0 fluid ounces of LPI 6819-1 to cotton that is stressed due to a lack of soil moisture.
- Do not graze or feed cotton forage to livestock.
- Do not apply through any type of irrigation equipment.

ADDITIVES

If rain is expected within 8 hours, use a high-quality surfactant to make LPI 6819-1 rain-safe after 4 hours.

Compatibility Test for Mix Components

Add components in the following sequence using 2.0 teaspoons for each pound or 1.0 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 LPI 6819-1): Cap the jar and invert 10 cycles.
5. **Emulsifiable Concentrates** (Oil concentrates): Cap the jar and invert 10 cycles.
6. **Water-Soluble Additives:** Cap the jar and invert 10 cycles. Let the solution stand for 15 minutes. **Evaluate** the solution for uniformity and stability. The spray solution should not have free oil on the surface, nor 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 of water

Only moderate agitation should be used while mixing and transporting.

GENERAL TANK MIXING INFORMATION

LPI 6819-1 has an aqueous base, and as such, is compatible with most insecticides and miticides. You may combine LPI 6819-1 with foliar fertilizers if prior experience has shown the original liquid formulation of LPI 6819-1 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. It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

GENERAL RESTRICTIONS AND LIMITATIONS

- **Maximum Yearly Use Rate:** Do not apply more than of **12.0 fluid ounces (0.75 pints) (0.13 lb mepiquat chloride)** of LPI 6819-1 per acre per year.
- **Maximum Rate Per Acre Per Application:** 6 fl oz (0.375 pints) (0.07 lbs mepiquat chloride)
- The sum of all applications containing mepiquat chloride must not exceed 0.132 pounds of mepiquat chloride per acre per year. Twelve (12.0) fluid ounces (0.75 pints) of LPI 6819-1 (at 1.42 pounds mepiquat chloride per gallon) is equal to 0.13 lb mepiquat chloride.
- 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 2.0 to 4.0 fluid ounces of LPI 6819-1 to cotton that is stressed due to a 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 Year	Livestock Grazing or Feeding	Aircraft Application	Application by Irrigation Equipment
Cotton	30 days	6.0 fl oz (0.07 lb a.i.)	12.0 fl oz (0.13 lb a.i.)	No	Yes	No

Table 4. As applied: Rate in fl oz or pints expressed as pounds of Mepiquat Chloride

LPI 6819-1									
Fluid Ounces	0.5	1.0	2.0	3.0	4.0	6.0	8.0	10.0	12.0
Pints	0.003125	0.0625	0.125	0.1875	0.25	0.375	0.5	0.625	0.75
Pounds Active Ingredient Mepiquat chloride	0.005	0.01	0.02	0.03	0.04	0.07	0.09	0.11	0.13

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or 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 acutely hazardous. 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 of the nearest EPA Regional Office for guidance.

CONTAINER HANDLING: Nonrefillable container. Do not reuse this container to hold materials other than pesticides or dilute pesticides (rinsate). After emptying and cleaning, it may be allowable to temporarily hold rinsate or other pesticide-related materials in the container. Contact your state regulatory agency to determine allowable practices in your state. Once cleaned, some agricultural plastic pesticide containers can be taken to a container collection site or picked up for recycling. To find the nearest site, contact your chemical dealer or manufacturer, or contact The Agricultural Container Recycling Council (ACRC) at www.agrecycling.org. If not recycled, then puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities. Triple rinse or pressure rinse container (or equivalent) promptly after emptying.

For packages up to 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. **Pressure rinse as follows:** 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 or collect rinsate for later use or 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.

For packages greater than 5 gallons and less than 56 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. **Pressure rinse as follows:** 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 or collect rinsate for later use or 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.

For packages greater than 56 gallons: To clean the container before final disposal, empty the remaining contents from this 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 rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

For refillable containers: Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container 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 rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

For help with any spill, leak, fire or exposure involving this material, call day or night CHEMTREC – 1-800-424-9300

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

BEFORE BUYING OR USING THIS PRODUCT, read the entire Directions for Use and the following Conditions of Sale and Limitation of Warranty and Liability. By buying or using this product, the buyer or user accepts the following Conditions of Sale and Limitation of Warranty and Liability, which no employee or agent of LOVELAND PRODUCTS, INC. or the seller is authorized to vary in any way.

Follow the Directions for Use of this product carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop or other plant injury, ineffectiveness, or other unintended consequences may result from such risks as weather or crop conditions, mixture with other chemicals not specifically identified in this product's label, or use of this product contrary to the label instructions, all of which are beyond the control of LOVELAND PRODUCTS, INC. and the seller. The buyer or user of this product assumes all such inherent risks.

Subject to the foregoing inherent risks, LOVELAND PRODUCTS, INC. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use when the product is used in strict accordance with such Directions for Use under normal conditions of use. EXCEPT AS WARRANTED IN THIS LABEL AND TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THIS PRODUCT IS SOLD "AS IS," AND LOVELAND PRODUCTS, INC. MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ELIGIBILITY OF THIS PRODUCT FOR ANY PARTICULAR TRADE USAGE. IN THE UNLIKELY EVENT THAT BUYER OR USER BELIEVES THAT LOVELAND PRODUCTS, INC. HAS BREACHED A WARRANTY CONTAINED IN THIS LABEL AND TO THE EXTENT REQUIRED BY APPLICABLE LAW, BUYER OR USER MUST SEND WRITTEN NOTICE OF ITS CLAIM TO THE FOLLOWING ADDRESS: LOVELAND PRODUCTS, INC., ATTENTION: LAW DEPARTMENT, P.O. BOX 1286, GREELEY, CO 80632-1286.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE BUYER'S OR USER'S EXCLUSIVE REMEDY FOR ANY INJURY, LOSS, OR DAMAGE RESULTING FROM THE HANDLING OR USE OF THIS PRODUCT, INCLUDING BUT NOT LIMITED TO CLAIMS OF BREACH OF WARRANTY OR CONTRACT, NEGLIGENCE, STRICT LIABILITY, OR OTHER TORTS, SHALL BE LIMITED TO ONE OF THE FOLLOWING, AT THE ELECTION OF LOVELAND PRODUCTS, INC. OR THE SELLER: DIRECT DAMAGES NOT EXCEEDING THE PURCHASE PRICE OF THE PRODUCT OR REPLACEMENT OF THE PRODUCT. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, LOVELAND PRODUCTS, INC. AND THE SELLER SHALL NOT BE LIABLE TO THE BUYER OR USER OF THIS PRODUCT FOR ANY CONSEQUENTIAL, SPECIAL, OR INDIRECT DAMAGES, OR DAMAGES IN THE NATURE OF A PENALTY.

Potenza is a registered trademark of Loveland Products, Inc.

[Option Marketing Claims, Logos and Graphics – These items may appear throughout the label as needed]

{Note to Reviewer: These logos and graphics or their respective components may be used throughout this label. The optional claims next to the logo are [PLANT GROWTH REGULATOR] [PGR] [CROP PROTECTION]. The logo may be used by with one or more of the optional claims, or it may be used by itself.}



{Note to Reviewer: the Loveland Logo may be used throughout the label.}



{Note to Reviewer: For the language on the base sticker (component of the label booklet) that is next to the container, Loveland Products follows **40 CFR 156.10** and the chart in the **Label Review Manual, Chapter 3: General Labeling Requirements; Section IV – Label Contents and Placement; Part C.**. If for any reason the base sticker is too small to contain all components of Ch.3, Section IV, Part C, Chapter 18.V. Small Containers will be followed.}