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# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

Mr. W. A. Hawkins Arysta LifeScience 15401 Weston Parkway Suite 150 Cary, NC 27513

MAR 2 5 2011

**Product Name:** 

Pix Ultra

EPA Reg. No.:

66330-350

Subject:

Your notification dated February 23 2011 to add a Spanish

precautionary statement

**EPA Decision Number:** 

445872

Dear Mr. Hawkins:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested fall within the scope of PRN 98-10.

The label submitted with the application has been stamped "Notification" and will be placed in our records. A copy is enclosed for your records.

If you have any questions, please contact Shaunta Hill by phone at (703) 347-8961 or via email at hill.shaunta@epa.gov, or myself at (703) 308-3194 or joyner.shaja@epa.gov.

Sincerely,

Shaja B. Joyner

Product Manager 20

Fungicide Branch

Registration Division (7504P)

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Please read	instructions	on reverse	before	completing	form

Please read instructions on reverse ber	ore completing form	<u>.                                    </u>	Form Approve	ea, OMB No. 2070-	-0060, Approval expires 05-31-98
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EPA En	/ironmental Pr	otection Agenc	y 🗌 Amendı	ment	
	Washington,	•	⊠ Other:		
	App		esticide - Sectio	<u> </u>	
1. Company/Product Number		2. EPA	Product Manager Shaja Joyner		Proposed Classification
66330-350					None - Restricted
4. Company/Product (Name)		PM#	20		There There is the stricted
Pix Ultra			20		<u> </u>
5. Name and Address of Applicant (a Arysta LifeScience North Ame 15401 Weston Parkway, Suite Cary, NC 27513	erica, LLC	(b)(1), to:		ar or identical i	vith FIFRA Section 3(c)(3) n composition and labeling
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Amendment – Explain below.			Final printed la	bels in response to	Agency letter dated
Resubmission in response to A	Agency letter dated		"Me Too" Applic		Agency letter dated
Notification - Explain below.	.g,		Other - Explain		
Explanation: Use additiona	page(s) if nece	essary. (For Sect			
Notification of addition of Spa				,	
This notification is consistent	t with the provisi	ons of PR Notice	98-10 and EPA re	gulations at 40	CFR 152.46, and no other
changes have been made to	the labeling or t	the confidential st	atement of formula	of this produc	t. I understand that it is a
violation of 18 USC Sec 100	1 to willfully mak	e any false state	ment to EPA. I furt	her understand	that if this notification is not
consistent with the terms of I	PR Notice 98-10	and 40 CFR 152	2.46, this product m	nay be in violati	on of FIFRA and I may be
subject to enforcement actio	n and penalties	under sections 1:	2 and 14 of FIFRA.		-
There are no PRIA fees asso	ciated with this	action. Contac	t: alex.hawkins@	arystalifescie	nce.com
		Secti	on - III		
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W. A. Hawkins, Jr., I	Ph.D.	Regul	atory Manager		ີເເັ 919-678 <del>.</del> 4886
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		rtification			o. Date Application
I certify that the statements I have a acknowledge that any knowingly fal under applicable law.					Received (Stamped)
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February 23, 2011

Ms. Shaja B. Joyner, PM 20 Document Processing Desk (NOTIF) Office of Pesticide Programs – 7504P U.S. Environmental Protection Agency Room S-4900, One Potomac Yard 2777 S. Crystal Drive Arlington, VA 22202

Subject: Pix Ultra (EPA Reg. No. 66330-350)

Notification of Addition of Spanish Precautionary Statements

Dear Ms. Joyner:

This is to notify the Agency that Arysta LifeScience North America, LLC intends to add the Spanish language precautionary statement "Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle" and its English translation to the front panel of the label of its product, Pix Ultra (EPA Reg. No. 66330-350). While this language is not required for this product, we would like to add it in the name of good product stewardship.

We believe this is a non-PRIA action that does not require a fee payment. If you have any questions or require additional information, you may contact me at (919) 678-4886 or by e-mail at alex.hawkins@arystalifescience.com.

Sincerely,

W. A. Hawkins, Jr., Ph.D.

Regulatory Manager

# Pix® Ultra

NOTIFICATION
MAR 2.5 2011

# **Plant Regulator**

#### For use on cotton

Active Ingredients:	
Mepiquat Chloride*: N, N-dimethylpiperidinium chloride	3.9%
Other Ingredients:	96.1%
Total	100.0%
*Equivalent to 0.35 pounds of active ingredient per gallon.	

EPA Registration Number 66330-350 EPA Establishment Number 51036-GA-01

# 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.)

See inside booklet for complete **Precautionary Statements**, **Statement of Practical Treatment**, **Directions For Use**, and **Warranty and Disclaimer Statement**.

Net contents: 1 gallon (3.79 liters)

#### Manufactured For: ARYSTA LIFESCIENCE NORTH AMERICA, LLC

15401 Weston Parkway, Suite 150 Cary, NC 27513

	FIRST AID
	Take off contaminated clothing.
lf no skin or	Rinse skin immediately with plenty of water for 15-20 minutes.
clothing	Call a poison control center or doctor for treatment advice.
	Move person to fresh air.
If inhaled	If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably
	y mouth-to-mouth, it possible. c e
	Call a poison control center or doctor for further treatment advice.
	Hold eye open and rinse slowly and gently with water for 15-20 minutes.
If in eyes	Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye.
	Call a poison control center or doctor for treatment advice.
	• Call a poison control center or doctor immediately for treatment advice.
If swallowed	Have person sip a glass of water if able to swallow.
	• Do not induce vomiting unless told to do so by a poison control center or doctor.
	Do not give anything by mouth to an unconscious person.
	HOT LINE NUMBER
EMERGENCY	TELEPHONE NUMBERS: Have the product container or label with you when calling ຂໍ ກວເຮັດຄ
	or doctor or going for treatment.
	R EMERGENCY MEDICAL ASSISTANCE CALL: 1-866-303-6952
FOR CHEMIC	AL EMERGENCY: Spill, leak, fire, exposure, or accident call CHEMTREC 1-800-424-9300

**Precautionary Statements** 

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#### Hazards to Humans and Domestic Animals

**Caution:** Avoid contact with eyes, skin, or clothing. In case of contact, immediately flush eyes or skin with plenty of water. Get medical attention if irritation persists. Harmful if absorbed through skin. Wash thoroughly with soap and water after handling.

## Personal Protective Equipment (PPE)

#### Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical resistant gloves
- Shoes plus socks

Follow the 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.

## **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.

#### **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 (such as Nitrile, Butyl, Neoprene, and/or Barrier Laminate).
- Shoes plus socks

#### Storage and Disposal

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

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:

Plastic Containers: Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. 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 is 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. Offer for recycling, if available, or 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.

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#### **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.

#### In Case of a Spill

In case of large-scale spillage regarding this product, call: CHEMTREC 800-424-9300

Steps to be taken in case material is released or spilled:

Wear the personal protective equipment specified on the label or the Material Safety Data Sheet. Recover the material for re-use according to label whenever possible. Cover the liquid with an absorbent material (such as pet litter). Sweep up and place in an appropriate container for disposal. Remove and wash clothing and personal protective equipment prior to re-use. Keep the spill out of all sewers and open bodies of water.

#### **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 Warranty and Disclaimer Statement are to be followed. This labeling must be in the user's possession during application.

#### I. General Information

Pix® Ultra plant regulator is a foliar-applied plant regulator that contains a borate additive which can improve early boll retention. Pix Ultra allows the grower to manage the cotton plant for short-season production, reducing the risk of a prolonged harvest. Delayed harvest may lead to yield loss and fiber quality reduction. The use of Pix Ultra will 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
- · better harvest efficiency
- darker green leaf color.

Most of these effects often favorably influence the yield potential of the cotton plant.

#### 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.

### II. Application Instructions

#### **Early Application**

The grower has the option of low-rate multiple applications (see Table 1) or higher, less frequent dosages (see Table 2) which greatly facilitates the grower's management flexibility. The multiple application option gives the producer the ability to discontinue usage of Pix Ultra if any significant stresses occur after an earlier application. In such a case, the total quantity of Pix Ultra used over a season may be reduced. If stress is relieved, the grower has the option of continuing treatments with Pix Ultra. In addition, the rate and timing ranges indicated in the Application Rates and Timings Tables allow the grower to tailor his usage of Pix Ultra 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 VI. General Restrictions and Limitations)

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Fields should be carefully scouted and **Pix Ultra** 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.

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 section VI. General Restrictions and Limitations.

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,	First application: Optimal results will be achieved when plants are in the matchhead square <sup>1</sup> stage of growth.	2 fluid ounces	4 fluid ounces
MS, NC, NM, OK, SC, TN,	Second application: 7-14 days later, or when regrowth occurs.	2 fluid ounces	4 fluid ounces
TX, VA	Third application: 7-14 days later, or when regrowth occurs.	2-4 fluid ounces <sup>2</sup>	4-8 fluid ounces <sup>2</sup>
	Fourth application: 7-14 days later, or when regrowth occurs.	2-8 fluid ounces <sup>2</sup>	4-12 fluid ounces <sup>2</sup>
	Fifth application (if needed): 7-14 days later, or when regrowth occurs.	4-8 fluid ounces <sup>2</sup>	4-12 fluid ounces <sup>2</sup>
	Late season: Refer to Late Season Application of Pix® Ultra plant regulator	8-16 fluid ounces <sup>2</sup>	12-24 fluid ounces <sup>2</sup>

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

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

Table 2. Application Rates and Timing

The times and rates of application have been carefully researched and section II. Application Instruction should

be observed as specified below. See section VI. General Restrictions and Limitations.

	becilied below. See Section VI. General Restrictions and Limitations.	
Geographic		Rate Per
Area	Time of Application	Acre
AL, AR,	First application:	
AZ, CA,	Apply Pix Ultra to actively growing cotton that is 20-30" tall, provided cotton is not more	8-16 fluid
FL, GA,	than 7 days beyond early bloom stage (5-6 blooms per 25 row feet). If cotton is 24" tall	ounces
LA, MO,	and has no blooms, apply <b>Pix Ultra</b> . Use 8-16 fluid ounces per acre on cotton where	0011000
MS, NM,	excessive vegetative growth is not likely to be a problem, and 16 fluid ounces per acre in	
NC, OK,	areas tending to have excessive vegetative growth.	
SC, TN,	areas teriaing to have excessive vegetative growth.	
TX (including	Second application for control of excessive vegetative growth:	~ <del>~~</del>
Rio	If the cotton field has a history of vigorous growth or if conditions after the first application	8-16 fluid
Grande		
	of Pix Ultra favor vigorous growth, make a second application 2-3 weeks after the first	c c ounces
Valley), VA	application.	e v e
	I hird application for control of excessive vegetative growth:	
	If the cotton field has a history of vigorous growth or if conditions continue to favor.	ზ <sub>ō</sub> 16 fluid
	vigorous growth, make a third application 1-2 weeks after the second application.	<sup>c c</sup> ounces
	Late season application:	c
	Refer to Late Season Application in section II. Application Instructions.	3-24 fluid
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OK, TX	Areas where excessive vegetative growth is not a problem	CCC
(except	First application:	c
Rio Grande	Apply Pix Ultra to actively growing cotton in the early bloom stage (5-6 blooms of 25 row	8 fluid
Valley)	feet). If no blooms are present and the cotton is 20" tall and actively growing, apply Pix	ounces
1 4	Ultra.	
	Second application:	
	If the cotton field has a history of vigorous growth or if conditions continue to favore	ί.
	vigorous growth, make a third application 1-2 weeks after the second application.	
L	rigorous growin, make a trind application 1-2 weeks after the second application.	

Third application:  If conditions after the second application of Pix Ultra continue to favor vigorous growth, make a third application 1-2 weeks after the second application.	8 fluid ounces
Late season applications:	8-24 fluid
Refer to Late Season Application in section II. Application Instructions.	ounces

In the absence of these stresses, up to 5 low-rate multiple applications can be made each season. After the first application (at matchhead square in the absence of stress), the rate and timing of subsequent applications will depend on vegetative vigor. Under good growing conditions, additional treatments should be made at 7-14 day intervals. However, if new growth at any time is excessive, higher rates of Pix Ultra 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 Pix Ultra is increased --- excess vegetative growth is likely because of poor fruit load.

#### Late Season Application

Late application of Pix Ultra (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 Pix Ultra. 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 Pix Ultra 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
- · On fields where cotton never completely cuts out: Apply Pix Ultra when there are 4-6 nodes above the white flower (NAWF). Measure NAWF by counting the number of mainstream 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 Pix Ultra.

#### Use Rate for Late Season Application

Apply 8-24 fluid ounces of Pix Ultra 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

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- Water as Diluent: Use a minimum of 2 gallons of spray solution per acre in all states except California: In California, use a minimum of 1 quart of oil per acre. When using oil as a diluent, the oil concentrate must

  - · contain only EPA-exempt ingredients
  - · provide good mixing quality in the jar test
  - be successful in local experience.

The exact composition of suitable products will vary; however, vegetable and petroleum oil concentrates should contain emulsifiers to provide good mixing quality. If the oil does not contain an emulsifier, one must be added during mixing at a volume equal to 3% of the final volume of the mixing tank. Do not apply Pix Ulkra-plant regulator 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.

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**Drift Management** 

Avoiding spray drift at the application site is the responsibility of the applicator. The applicator should be familiar with and take into account the information covered in the Aerial Drift Reduction Advisory Information. 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.

Application Height: Applications should not be made more than 10 feet above the top of the largest plants unless a greater height is required for aircraft safety. Making applications at the lowest safe height reduces exposure of droplets to evaporation and wind.

**Boom Length:** The distance of the outer most nozzles on the boom must not exceed  $\frac{3}{4}$  the length of the wingspan or rotor. Reducing this length may further reduce drift without reducing swath width.

**Swath Adjustment:** When applications are made with a crosswind, the swath will be displaced downward. 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. Application should be avoided below 2 mph due to variable wind direction and high inversion potential. Note: Local terrain can influence wind patterns. Every application should be familiar with local wind patterns and how they affect spray drift.

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

#### **Controlling Droplet Size**

The most effective way to reduce drift potential is to apply large droplets. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly, or under unfavorable environmental conditions.

**Pressure:** Do not exceed the nozzle manufacturer's recommended pressures. For many nozzle types lower pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.

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

**Nozzle Orientation:** Orienting nozzles so that the spray is released parallel to the airstream produces larger droplets than other orientations and is the recommended practice. Significant deflection from horizontal will reduce droplet size and increase drift potential. Nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees. Where states have more stringent regulations, they should be observed.

**Nozzle Type:** Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets. Use a nozzle type that is designed for the intended application. With most nozzles, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back produce the largest droplets and the lowest drift.

#### **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, non target crops) is minimal (e.g., when wind is blowing away from the sensitive areas).

#### Ground Application Spray volume

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

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#### III. Additives

If rain is expected within 8 hours, use a high-quality, EPA-exempt surfactant to make Pix® Ultra plant regulator 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.

- 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.
- Water-dispersible products: --- (dry flowables, wettable powders, suspension concentrates, or suspoemulsions) Cap the jar and invert 10 cycles.
- 4) Water-soluble products: --- (such as Pix Ultra) Cap the jar and invert 10 cycles.
- 5) Emulsifiable concentrates: --- oil concentrate Cap the jar and invert 10 cycles.
- 6) Water-soluble additives: --- Cap the jar and invert 10 cycles.
- 7) Let the solution stand for 15 minutes.
- 8) Evaluate the solution for uniformity and stability. The spray solution should not have free oil on the surface, nor fine particles that precipitate to the bottom, not thick (clabbered) texture. Do not use any spray solution that could clog spray nozzles.

#### IV. Mixing Order

- 1) Water: Begin by agitating a thoroughly clean sprayer tank half full of clean water.
- Products in PVA bags: Rinse the tank thoroughly before adding any material in PVA bags as boron rescue 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.
- Water-dispersible products: (dry flowables, wettable powders, suspension concentrates, or suspoemulsions)
- 4) Water-soluble products
- 5) Emulsifiable concentrates
- 6) Water-soluble additives
- 7) Remaining quantity water

Only moderate agitation should be used while mixing and transporting.

#### V. General Tank Mixing Information

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

Read and follow the applicable **Restrictions and Limitations** and **Directions For Use** on all products involved in tank mixing. The most restrictive labeling applies to tank mixes.

#### VI. General Restrictions and Limitations

- Maximum seasonal use rate: Do not apply more than a total of 48 fluid ounces (3 pints) of Pix Ultra 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 standard Pix or Pix Ultra (0.35 pounds a.i. per gallon) or 8.4 fluid ounces of Pix Concentrate (2.0 pounds) a.i. per gallon) or 0.375 pounds of Pix DF (35% active) or 1 water-soluble packet of Pix DF per 0.33 acre.
- Preharvest Interval (PHI): Do not apply within 30 days of harvest.
- · Restricted Entry Interval (REI): 12 hours.
- Do not plant another crop within 75 days of last treatment.
- Stress: Do not apply to cotton plants under severe stress due to adverse weather conditions, mite, insect, or nematode damage, disease, herbicide injury, or fertility stress. If using the low-rate multiple option, discontinue use until the stress is alleviated. Do not apply a single application of 8-16 fluid ounces of Pix Ultra 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** 

30 days

Cotton

This produc	ct can be used on the fo	CRO ollowing crops:	PS:		
		Cott	ton		į
		•	ete Restrictions and ication Instructions		
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
	· <del> </del> · · · · · · · · · · · · · · · · · · ·	24 fluid ounces	48 fluid ounces		<del></del>

(3 pints)

No

Yes

(1.5 pints)

12

**Warranty and Disclaimer Statement** 

The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Such risks may arise from weather conditions, soil factors, off-target movement, unconventional farming techniques, the presence of other materials, the manner of use or application, or other unknown factors, all of which are beyond the control of Arysta LifeScience North America, LLC ("Arysta"), and can cause crop injury, injury to non-target crops or plants, ineffectiveness of the product, or other unintended consequences. All such risks shall be assumed by the user or buyer. Arysta 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, subject to the inherent risks described above, when used in accordance with the Directions for Use under normal conditions. This warranty does not extend to the use of this product contrary to label instructions or under conditions not reasonably foreseeable to Arysta, and is subject to the inherent risks described above.

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PIX ULTRA (MASTER) AD112100, NOTIFICATION 02/22/11