4-30-97 7969-107 Form Approved. OMB No. 2070-0060. Approval expire OPP Identifier Number Environmental Protection Agency Registration Amendment Washington, DC 20460 To nebuild pain age of all the state of the state Other A HOTT Ye were the entertain of information. I as a Section I 2. Application for Pesticide Section I 2. Application of the control of 1. Company/Froduct Number avenue of refer between the New York (2) EPA Product Manager 3. Proposed Classification Cynthia Giles-Parker 7969-107 Restricted 4. Company/Freduct (Name) was not company and out of the contract the contract of the contract PM# combing to 15ouncome of the THE PIXTUF Plant Regulator always at Name and Address of Applicant (Include ZIP Code) BASE Corporation 6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling PO Box 13528 to: Research Triangle Park, NC 27709 EPA Reg. No. er and the second Check if this is a new address **Product Name** Section - II ≟menαmect - Explain below. Final printed labels in response to Agency letter dated "Me Too" Application. ₹esubrrission in response to Agency letter dated ____ Notification - Explain below. Other - Explain below. Explaration: Use additional page(s) if necessary. (For section I and Section II.NOTIFICATION Change label to water soluble packaging Section - III 1. Material Trais Product Will Be Packaged In: Child-Resistant Packaging Unit Packaging Water Soluble Packaging 2. Type of Container Yes Matal Yes Yes Plastic No No Glass If "Yes" Paper No. per if "Yes" No. per * Certification must Unit Packaging wgt. container Package wgt container Other (Specify) cardboard be submitted 2 oz 8 3. Location of Net Contents Information 5. Location of Label Directions 4. Size(s) Retail Container On Label 1 pound Container Label ... On Labeling accompanying product 6. Manner in Which Label is Affixed to Product-Lithograph Paper glued Stenciled Section - IV 1. Correct Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.) Title Telephone No. Michide Area Code) Name Robert Ronde Sr. Registration Specialist 919-547-2985 Certification Arganian 6. Date Application Received. I certify that the statements I have made on this form and all attachments thereto are true, accurate and carables. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or $\sqrt{2}$. ್ಯಾ∴∖(Stamped) ಚ=ೆ both under applicable law. Mada<mark>nt tip</mark> i er <u>kamp</u> made ska To the factor 3. Title is a machine Para Color 2. Signature Sr. Registation Specialist 5. Date Addition the ac 4. Typet Name 4/29/97 Robert Rohde



EPA approved 6-3-9

oz. 3 WSP

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EPA notif.

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NOTIFICATION

APR 3 0 1997



Plant Regulator Active ingredient

Mepiquat Chloride:

Inert ingredients 65.0%100.0%

EPA Reg. No. 7969-107

EPA Est. No. 33967-NJ-1

KEEP OUT OF REACH OF CHILDREN.

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

Precautionary Statements

May be fatal if swallowed. Do not breathe dust or spray mist. Do not get in eyes, on skin, or on clothing.

Statement of Practical Treatment

If swallowed: Contact a physician or Poison Control Center. Do not induce vomiting or give anything by mouth to an unconscious person.

If on skin: Wash thoroughly with plenty of soap and water. Remove contaminated clothing and launder before re-use. Get medical attention if irritation persists.

If in eyes: Immediately flush eyes with plenty of water. Get medical attention if irritation persists.

Environmental Hazards

For terrestrial uses, 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.

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to supplemental labeling under "Agricultural Use Requirements" in the Directions For Use section for information about this standard.

This box contains Pix® DF plant regulator, a 35% water-dispersible granule in water-soluble packets inside a foil liner (outer bag). The inner packets dissolve in water and the contents will disperse and dissolve. After opening foil outer bag, place one or more of the inner packets into the mixing tank. If all water-soluble packets are not used, carefully reseal the foil bag. Each foil bag contains eight water-soluble packets. Each packet contains 2 dry ounces (57 grams) of formulated 'contains 2 dry ounces (57 grams) product, equivalent to one pint of 4.2% (liquid) Pix plant regulator.

Net contents: 1 pound

BASF Corporation

P.O. Box 13528, Research Triangle Park, NC 27709-3528

Personal Protective Equipment: Applicators and other handlers must wear:

Long-sleeved shirt and long pants

Waterproof gloves and shoes plus socks

Follow manufacturer's instructions for cleaning/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.

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

Waterproof gloves

Shoes plus socks

Storage and Disposal Do not contaminate water, food or feed by storage or disposal. Pesticide Disposal: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance. Container Disposal: 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.

In Case of Emergency
In case of large-scale spillage
regarding this product, call:
CHEMTREC800-424-9300
BASF Corporation ..800-832-HELP

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In case of medical emergency regarding this product, call:

Your local doctor for immediate treatment.

Your local poison control center (hospital).

3. BASF Corporation 800-832-HELP.

General Information Pix® DF plant regulator is a foliar. applied plant regulator which modifies the cotton plant in several ben-eficial ways. It is the only such compound which allows the grower to manage the cotton plant for shortseason production leading to reduced risk of yield and quality loss due to delayed and prolonged harvest. The use of Pix DF 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; better harvest efficiency; and darker green leaf color. Most of these effects often favorably influence the yield potential of the cotton plant.

Early Application of Pix DF

On both short-staple and Pima cotton, the grower has the option of low-rate multiple applications, or in higher, less frequent dosages which greatly facilitates his management flexibility. The multiple application option gives the producer the ability to discontinue usage of Pix DF if any significant stresses occur after an earlier application; in such a case, the total quantity of Pix DF used over a season may be reduced. If stress is relieved, the grower has the option of continuing treatments with Pix DF. In addition, the rate and timing ranges indicated allow the grower to tailor his usage of Pix DF 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.)

Fields should be carefully scouted and Pix DF 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 could be made each season.

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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 of 1 packet per 8 acres to 1 packet per 2 acres should be made at 7-14 day intervals. However, if new growth at any time is excessive, higher rates of Pix DF up to 1 packet per 4 acres to 1 packet per 1.3 acres can be used.

Do not exceed a total seasonal use of 1 packet per 0.33 acre (3 packets per acre).

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

Late Application of Pix DF Late application of Pix DF (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 DF. Late season application can lead to one or more of the following: reduction in late season vegetative growth or regrowth after cutout or defoliation, more complete and manageable cutout, better defoliation, earlier maturity and reduction in trash and lower ginning costs. Some of these effects may favorably influence the yield potential and fiber quality. A late season application of Pix DF 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

A. On fields where cotton cuts out and then starts regrowth: apply when regrowth begins, as evidenced by new leaves in the terminal and stem elongation. This would often, but not always, be in the period of 5-6 weeks after the first bloom.

B. On fields where cotton never completely cuts out, apply Pix DF when there are 4-6 nodes above the white flower (NAWF). Measure NAWF by counting the number of mainstem nodes from the first position white bloom (the one closest to the mainstem) to the terminal. Count the node with the first position white bloom as zero and the last node in the terminal, which is counted, should have a leaf at least the size of a quarter.

Generally, the NAWF first reaches 4-6 during the fourth to sixth week of bloom. During this time period, the NAWF should be decreasing about one node every 5-6 days — if its rate of decrease is less, this means that the plant is not cutting out soon enough (the crop is too vigorous). If the fifth week of bloom arrives and NAWF is still above 5-6, apply Pix DF.

Use Rate for Late Season Application

Pix DF should be applied at 1 packet per 2 acres to 1 packet per 0.66 acre. Use the lower rate range on cotton with only moderate additional growth potential, and the higher rate range on fields likely to continue vigorous growth. Total seasonal use per season (early plus late application) must not exceed 1 packet per 0.33 acre (3 packets per acre).

Spray Volume Water as Diluent

Ground and aerial application: When applying Pix DF with ground equipment, in all states but California, use a minimum of 2 gallons of water per acre; in California, use a minimum of 5 gallons per acre.

For aerial application in all states but California, use a minimum of 2 gallons of water per acre; in California, use a minimum of 5 gallons per acre. Regardless of method or gallonage of application, thorough coverage of the cotton foliage is required.

Rain-safe Period and Compatibility Rain-safe period

If rain is expected within 8 hours, use a high-quality, EPA-exempt surfactant to make **Pix DF** rain-safe after 4 hours.

Compatibility

Pix DF is readily soluble in water. Once dissolved, it is compatible with most insecticides and miticides. If in doubt, test compatibility by adding a teaspoon of the insecticide or miticide to a pint of ready-to-use spray solution of Pix DF with foliar fertilizers if your prior experience has shown the original liquid formulation of Pix DF to be compatible and noninjurious under your conditions.

Always add **Pix DF** to water and allow to dissolve before adding other pesticides or fertilizers.

Restrictions and Limitations
Significant insect or mite damage
after application(s) of Pix DF is likely
to eliminate or greatly reduce the
benefits derived from Pix DF.
Do not apply a single application of
1 packet per 2 acres to 1 packet
per 1 acre of Pix DF to cotton that
is drought stressed; i.e., stressed
due to lack of soil moisture. If using
the low-rate multiple option, discontinue use until the moisture stress is
alleviated.

Do not apply more than 1 packet per 0.33 acre (3 packets per acre, per season).

The sum of all products and formulations containing mepiquat chloride must not exceed 0.132 pounds (60 grams) of mepiquat chloride per acre per season. This maximum equals 3 pints of standard Pix (0.35 pounds per gallon) or 8.4 ounces of Pix Concentrate (2.0 pounds per gallon) or ³/₈ pounds of Pix DF (35%) or 6.0 ounces dry weight per acre.

Do not apply **Pix DF** within 30 days of harvest.

Do not graze or feed cotton forage to livestock.

Do not tank mix with other products other than those mentioned under **Compatibility**.

Do not apply this product through any type of irrigation system. Do not use **Pix DF** in ultra low volume applications.

When using **Pix DF** in a tank mix with insecticides or miticides, always add **Pix DF** to the spray tank before adding the insecticide or miticide.

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Time and Rate of Application:
Short-Staple and Long-Staple (Pima) Cotton
The times and rates of application have been carefully researched and the Directions For Use should be observed as specified below. Do not apply more than 0.33 packets of **Pix® DF** plant regulator per acre, per season.

Table 1. High Rate Single or Multiple Applications

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 when cotton is actively growing and is 20-30" tall, provided cotton is not more than 7 days beyond early bloom stage (5-6 blooms per 25 row feet). If cotton is 24" tall and has no blooms, apply Pix DF. Use 1 PVA packet per 4 acres on cotton where excessive vegetative growth is not likely to be a problem, and 1 PVA packet per 2 acres in areas tending to have excessive vegetative growth. See Restrictions and Limitations.	1 packet per 2 acres to 1 packet per 1 acre
IIV, VA	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 Pix DF favor vigorous growth, apply a second application 2-4 weeks after the first application.	1 packet per 2 acres to 1 packet per 1 acre
	Third application for control of excessive vegetative growth: If the cotton field has a history of vigorous growth or if conditions continue to favor vigorous growth, apply a third application 1-2 weeks after the second application.	1 packet per 2 acres to 1 packet per 1 acre
	Late season application: See section titled Late Season Application of Pix DF.	1 packet per 2 acres to 1 packet per 0.66 acre
OK, TX (except Rio Grande Valley)	Areas where excessive vegetative growth is not a problem First application: Apply when cotton is in early bloom stage (5-6 blooms per 25 row feet) and actively growing. If no blooms are present and the cotton is 20" tall and actively growing, apply Pix DF. See Restrictions and Limitations.	1 packet per 2 acres
	Second application: If conditions after the first application of Pix DF favor vigorous growth, apply a second application 2-4 weeks after the first application.	1 packet per 1 acre
	Third application: If conditions after the second application of Pix DF continue to favor vigorous growth, apply a third application 1-2 weeks after the second application.	1 packet per 1 acre
	Late season application: See section titled Late Season Application of Pix DF.	1 packet per 2 acres to 1 packet per 0.66 acre
OK, TX (including Rìo Grande Valley)	Areas where excessive vegetative growth is a problem First application: Apply when cotton is actively growing and between 20" and 30" tall, provided cotton is not more than 7 days beyond early bloom stage (5-6 blooms per 25 row feet). If cotton is 24" tall and has no blooms, apply Pix DF.	1 packet per 1 acre
	Second application for control of excessive vegetative growth If cotton field has a history of vigorous growth, and/or conditions after the first application of Pix DF favor vigorous growth, apply a second application 2-4 weeks after the first application.	1 packet per 2 acres to 1 packet per 1 acre
	Third application: If conditions after the second application of Pix DF continue to favor vigorous growth, apply a third application 1-2 weeks after the second application.	1 packet per 2 acres to 1 packet per 1 acre
	Late season application: See section titled Late Season Application of Pix DF.	1 packet per 2 acres to 1 packet per 0.66 acre

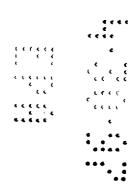


Table 2. Low-Rate Multiple Applications

Geographic Area (States)	Time of Application	Avg. Historical Pix (4.2%) Use Rate = 0.5 pint per acre (Or New Users of Pix DF)	Avg. Historical Pix (4.2%) Use Rate = 1 pint per acre (Or Fully Irrigated)
AL, AR, AZ, CA, FL, GA, LA, MO,	First application: Optimal results will be achieved when plants are in the matchhead square' stage of growth.	1 packet per 8 acres	1 packet per 4 acres
MS, NC, NM, OK, SC, TN, TX, VA	Second application: 7-14 days later, or when regrowth occurs.	1 packet per 8 acres²	1 packet per 4 acres ^a
	Third application: 7-14 days later, or when regrowth occurs.	1 packet per 8 acres to 1 packet per 4 acres²	1 packet per 4 acres to 1 packet per 2 acres ^c
	Fourth application: 7-14 days later, or when regrowth occurs.	1 packet per 8 acres to 1 packet per 2 acres ²	1 packet per 4 acres to 1 packet per 1.33 acres²
	Fifth application: (If needed) 7-14 days later, or when regrowth occurs.	1 packet per 4 acres to 1 packet per 2 acres²	1 packet per 4 acres to 1 packet per 1.33 acres²
	Late season: See Late Season Application of Pix DF	1 packet per 2 acres to 1 packet per 1 acre ²	1 packet per 1.3 acres to 1 packet per 0,66 acre [:]

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.

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

Table 3. Conversion Chart

Rate of Pix DF compared to original Pix (4.2%)				
Amount of Pix DF per acre (Ounces Dry Weight)	Amount of Pix (4.2%)			
1/s packet (0.25 ounce) 1/4 packet (0.5 ounce) 1/2 packet (1 ounce) 1 packet (2 ounces) 1.5 packets (3 ounces) 2 packets (4 ounces) 2.5 packets (5 ounces) 3 packets (6 ounces)	0.125 pint per acre 0.25 pint per acre 0.5 pint per acre 1 pint per acre 1.5 pints per acre 2 pints per acre 2.5 pints per acre 3 pints per acre			



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Additional Information For additional information, call COMMSERV® at 1-800-874-0081.

Conditions 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 use of the product in a manner inconsistent with its labeling, all of which are beyond the control of BASF CORPORATION ("BASF") or the Seller. All such risks shall be assumed by the Buyer.

BASF warrants 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. BASF MAKES NO OTHER EXPRESS OR IMPLIED WARRAN-TY OF FITNESS OR MER-CHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRAN-TY. IN NO CASE SHALL BASE OR THE SELLER BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT. BASF and the Seller offer this product, and the Buyer and User accept it, subject to the foregoing Conditions of Sale and Warranty which may be varied only by agreement in writing signed by a duly authorized representative of BASF.

Pix is a registered trademark of BASF AG. CommServ is a registered trademark of BASF Corporation. Patent numbers 5,380,350 and 5,516,521.

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NVA 96-4-24-0010 EPA notif. correx

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