

NOTICE OF PESTICIDE:  REGISTRATION  
 REREGISTRATION  
(Under the Federal Insecticide, Fungicide,  
and Rodenticide Act, as amended)

NAME OF PESTICIDE PRODUCT

Pix Concentrate Plant Regulator

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

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

PM25  
7969-97  
pg 10816

NOTE: Changes in labeling formula 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 U.S. EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby Registered/Reregistered under the Federal Insecticide, Fungicide, and Rodenticide Act.

A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.

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

This product is conditionally registered in accordance with FIFRA sec. 2(c)(7)(A) provided that you:

1. On page 2 of product label under section entitled "SPRAY VOLUME", 2nd paragraph, 1st sentence, delete the term "Experimental Use Permit"
2. On page seven of product label under application chart, add the phrase, "Do not apply more than 4.2 fl. oz. per acre per season."
3. Submit and/or cite all data required for registration/ reregistration of your product under FIFRA sec. 2(c)(5) when the Agency requires all registrants of similar products to submit such data.
4. Add the phrase, "EPA Registration No. 7969-97" and submit five (5) copies of your final printed labeling before you release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 2(e). Your release for shipment of the product constitutes acceptance of these conditions.

**BEST AVAILABLE COPY**

ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL

*Robert J. Taylor*

DATE

12/13/90

pg. 20.10

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

Please also note that your application for EUP permit (769-EUP-EI) has been withdrawn as requested in your letter dated November 2, 1990.

Sincerely yours,

Robert J. Taylor  
Product Manager (25)  
Fungicide-Herbicide Branch  
Registration Division (H7505C)

**PiX CONCENTRATE PLANT REGULATOR**

**Active Ingredient\*:**

**Mepiquat-Chloride: N,N-dimethylpiperidinium chloride:...** 22.5%

**Inert Ingredients:.....**77.5%

**\*Equivalent to 2.01 pounds active ingredient per gallon**

**EPA Registration No. 7969-\_\_**

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

Harmful if swallowed or absorbed through the skin. Causes eye irritation. 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.

**Practical Treatment**

**If in eyes:** Flush with plenty of water. Get medical attention if irritation persists.

**Environmental Hazards**

Do not apply directly to water or wetlands. Do not contaminate water when disposing of equipment wastewaters.

**Net Contents: 1 Gallon**

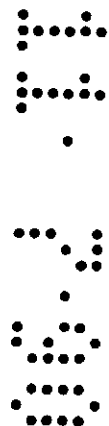
**BASF Corporation  
P.O. Box 13528  
Research Triangle, NC 27709-3528**

**ACCEPTED  
with COMMENTS  
in EPA Letter Dated:**

SEP 17

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

7969 97



### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

#### Storage and Disposal

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

Triple rinse container (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

#### In Case of Emergency

In case of large-scale spillage regarding this product, call:

CHEMTREC                    800-424-9300  
BASF Corporation        919-361-5300

In case of medical emergency regarding this product, call:

1. Your local doctor for immediate treatment.
2. Your local poison control center (hospital)
3. BASF Corporation 919-361-5300

#### General Information

PIX CONCENTRATE Plant Regulator is a foliar applied plant regulator which modifies the cotton plant in several beneficial ways. It is the only such compound which allows the grower to manage the cotton plant for earlier maturity, leading to reduced risk of yield and quality loss due to delayed and prolonged harvest. The use of PIX CONCENTRATE will also result in one or more of the following: height reduction and more open canopy, better boll retention, less boll rot, improved defoliation, reduced trash, and darker green leaf color. Some of these effects may favorably influence the yield potential of the cotton plant.

pg. 50/10

### General Information continued

On both short-stable and Pima cotton the grower has the option of single, dual or up to four low rate multiple applications, which greatly facilitates his management flexibility. One of the major factors affecting cotton growth and development is soil moisture. If drought stress occurs when PIX CONCENTRATE is applied, or occurs after a full rate (1.40-2.80 fl. oz./A) is applied, results will not be optimal. The low rate multiple option gives the producer the ability to discontinue usage of PIX CONCENTRATE if any significant stresses occur after an earlier application: in such a case the total quantity of PIX CONCENTRATE used over a season may be reduced. If stress is relieved, the grower has the option of continuing treatments with PIX CONCENTRATE. In addition, the rate range indicated allows the grower to tailor his usage of PIX CONCENTRATE to his particular cultural or varietal conditions. In areas where insecticides/miticides are frequently applied, the timings are such that tank-mixing is often possible. (See Restrictions and Limitations)

Fields should be carefully scouted and PIX CONCENTRATE should not be applied if plants are under stress from weather factors, mite, insect or nematode damage, disease stresses, herbicide injury or fertility stress. In the absence of these stresses, up to four low rate multiple applications should be made each season, generally using 0.35-0.70 fl. oz./A each time. After the first application (at match head square in the absence of stress) the rate and timing of subsequent application(s) will depend partially on growing conditions; under good growing conditions additional treatments (0.35-0.70 fl. oz./A) should be made at 7-14 day intervals. However, if new growth at any time is excessive, higher rates of PIX (0.70-1.40 fl. oz./A) can be used. Total use per season should not exceed 4.2 fl. oz./A.

### SPRAY VOLUME

#### Water as Diluent: Ground and Aerial Application

When applying PIX CONCENTRATE with ground equipment, in all states but California, use a minimum of 10 gallons of water per acre; in California use a minimum of 20 gallons/acre. For aerial application, in all states but California, use a minimum of 3 gallons/acre; in California, use a minimum of 5 gallons/acre. Regardless of method or gallonage of application, thorough coverage of the cotton foliage is required.

#### Oil Diluent: Ultra Low Volume (ULV) Aerial Application:

Permitted only in MS, TX and NC on this Experimental Use Permit. A nonphytotoxic oil concentrate should be used which must contain either a petroleum or vegetable oil base and must meet the following criteria: (1) be nonphytotoxic, (2) contain only EPA-exempt ingredients, and (3) be successful in local experience. The exact composition of suitable products will vary; however, vegetables and petroleum oil concentrates should

contain emulsifiers which provide good mixing quality. It is recommended that vegetable oil concentrates be highly refined.

Under constant agitation, pour approximately one-half of the required volume of oil (total final oil volume at least 2 pints/A) into the spray tank, and then simultaneously pour in the PIX CONCENTRATE and the remainder of the oil. Constant agitation is required during after mixing and during application.

**RAIN-SAFE PERIOD**

If rain is expected within 8 hours, use of a high quality, EPA-exempt surfactant is recommended, which will result in a rain safe period of 4 hours.

**COMPATIBILITY**

PIX CONCENTRATE has an aqueous base, and as such 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 CONCENTRATE. You may combine PIX CONCENTRATE with foliar fertilizers if your prior experience has shown the combination to be compatible and noninjurious under your conditions.

**RESTRICTIONS AND LIMITATIONS**

Insect or mite damage before, at or after application of PIX CONCENTRATE can lead to yield decreases or other undesirable effects.

Do not apply a single application of 1.4-2.8 fl. oz. of PIX CONCENTRATE 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 moisture stress is alleviated.

Do not use PIX CONCENTRATE on the short-staple variety Delta & Pineland 70.

Do not apply more than 4.2 fl. oz. of PIX CONCENTRATE per acre per season.

Do not apply PIX CONCENTRATE within 30 days of harvest.

Do not graze or feed cotton forage to livestock within 30 days of application, or after applying PIX CONCENTRATE in air as a ULV application by air.

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

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

**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.

**SINGLE OR DUAL APPLICATIONS**

Geo-graphic Area	TIME OF APPLICATION	Rate* per Acre
AL, AR AZ, CA FL, GA LA, MO MS, NM NC, SC TN, VA	<p><b>First Application:</b>                      Apply when cotton is actively growing and is 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 CONCENTRATE Plant Regulator. Use 1.4 fl.oz. per acre on cotton where excessive vegetative growth is not likely to be a problem, and 2.8 fl.oz. per acre in areas tending to have excessive vegetive growth. See Restrictions and Limitations.</p>	1.4 to 2.8 fl.oz.
	<p><b>Second application for control excessive vegetative growth:</b>                      If the cotton field has a history of excessive growth, and/or conditions the first application of PIX CONCENTRATE favor excessive growth, apply a second application 3 to 4 weeks after the first application.</p>	1.4 fl.oz.
OK, TX (EXCEPT RIO GRANDE VALLEY)	<p>Areas where excessive vegetative growth is not a problem:</p> <p><b>First application:</b>                      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 24" tall and actively growing, apply PIX CONCENTRATE. See Restrictions and Limitations.</p>	1.4 fl.oz.
	<p><b>Second application:</b>                      If condition after the first application of PIX CONCENTRATE favor excessive growth, apply a second application 3-4 weeks after the first application.</p>	1.4 fl.oz.

SINGLE OR DUAL APPLICATIONS continued

OK, TX	<p>Areas where excessive vegetative growth is a problem:</p> <p><b>First application:</b> Optimum results will be achieved when plants are in early bloom state (5-6 blooms per 25 row feet) and an average of 24" tall. Treatments can also be made when cotton height averages a minimum of 20" and a maximum of 38" provided cotton is not more than 7 days beyond early blooms as defined above. See Restrictions and Limitations.</p>	2.8 fl.oz.
	<p><b>Second application for control of excessive vegetative growth:</b> If cotton field has a history of excessive growth, and/or conditions after the first application of PIX CONCENTRATE favor excessive growth, apply a second application 3-4 weeks after the first application.</p>	1.4 fl.oz.

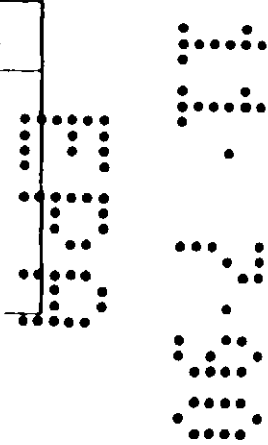
5555



LOW-RATE MULTIPLE APPLICATIONS

Geo graphic Area (States)	Time of Application	Avg. Historical Use Rate = 1.4 fl.oz. (or new users of Pix Conc.)	Avg. Historical Use Rate = 2.8 fl.oz. (or fully irrigated)
AL, AR AZ, CA FL, GA LA, MO MS, NC NM, OK SC, TN TX, VA	<p><b>First application:</b> Optimal results will be achieved when plants are in the matchhead square<sup>a</sup> stage of growth.</p> <p><b>Second application:</b> 7-14 days later, or when regrowth occurs.</p> <p><b>Third application:</b> 7-14 days later, or when regrowth occurs.</p> <p><b>Fourth Application:</b> 7-14 days later, or when regrowth occurs.</p>	<p>0.35 fl.oz.</p> <p>0.35 - 0.7 fl.oz.*</p> <p>0.35 - 0.7 fl.oz.*</p> <p>0.35 - 0.7 fl.oz.*</p>	<p>0.7 fl.oz.</p> <p>0.7 - 1.4 fl.oz.*</p> <p>0.7 - 1.4 fl.oz.*</p> <p>0.7 - 1.4 fl.oz.*</p>
<p>* Use higher rate if previous application was not made or if growing conditions are conducive to excessive growth.</p> <p><sup>a</sup> Matchhead square is when the first square of a typical cotton cotton plant is 1/8 - 1/4" in diameter. The first application should go on when 50% of the plants have one or more matchhead squares.</p>			

Conversion Chart: PIX CONCENTRATE and PIX			
fl. oz. PIX CONCENTRATE	=	fl. oz. PIX	
0.35	=	2	
0.70	=	4	
1.40	=	8	
2.80	=	16	



**CONDITIONS OF SALE AND WARRANTY**

The Directions for use of this product reflect the opinion of experts based on field use and test. 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 inherent risks referred to above. **BASF MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. IN NO CASE SHALL BASF 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.

