PM22 51036-188 File 10410

United States Environmental Protection Agency Washington, D.C. 20460

OCT 4 1993

Office of Prevention, Pesticides and Toxic Substances

MORTIS Gaskins
MICRO-FLO CO.
BOX 5948
LAKELAND FL 33807

Subject: Label Amendment Submission of 06/02/93

in Compliance with WPS Labeling Requirements

EPA Reg No. 51036-188

MEPIQUAT CHLORIDE, 4.2% LIQUID

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is accepted subject to the comments listed below.

Based on your certification, the Agency has accepted only those changes to your labeling which are necessary to comply with PR Notices 93-7 and 93-11, which reflect the WPS labeling requirements of 40 CFR part 156, subpart K. Any other labeling changes submitted in connection with this amendment application and not directly related to compliance with PR Notice 93-7 or 93-11 have neither been reviewed nor accepted by the Agency. If you wish to make any such changes, you must submit a separate amendment application proposing them. If your product registration is currently suspended, acceptance of this labeling amendment does not affect the suspension in any way.

A copy of your proposed labeling stamped "Accepted with comments" is attached. Make any required changes described in the attached and send three copies of fire labeling as soon as it is available to:

Document Processing Desk (FIN-LABEL)

Office of Pesticide Programs (H-7504C) U.S. Environmental Protection Agency 401 M Street SW Washington, DC 20460-0001

Hand or courier deliveries of final labels may be made to:

Document Processing Desk (FIN-LABEL) Room 266A Crystal Mall 2 1921 Jefferson Davis Highway Arlington, VA 22202

Please correct the typographical errors circled on the draft before printing final labeling.

In your final labeling the "Agricultural Use Requirements" text must be contained in a clearly separate box. This box may be set apart by a line, by another graphical device, by a different color background, or in any other way that clearly distinguishes it from surrounding text.

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Sames Tompkins, Deputy Chief Registration Support Branch Registration Division (7505W)

MEPICHLOR 4.2% LIQUID

Contains J.35 pounds active ingredient per gallon.

KEEP OUT OF REACH OF CHILDREN

CAUTION

STATEMENT OF PRACTICAL TREATMENT

IF IN EYES: In case of contact, immediately flush eyes or skin with plenty of water. Get medical attention if irritation persists.

IF ON SKIN: Wash with soap and water. Call a physician if irritation developes.

See Additional Precautionary Statements Inside Booklet

EPA Reg. No. 51036-188

EPA Est. No. 51036-GA-1

Manufactured by:
MICRO FLO COMPANY
P.O. Box 5948
Lakeland, Florida 33807-5948

ACCEPTED
with COMMENTS
In EPA Latter Dated

XX 4 1993

Under the Federal Insecticide, Fundicide, and Redenticide Act as amounted, for the posteride registered under EPA Reg. No.

PRECAUTIONARY STATEMENTS Hasards to Humans and Domestic Animals

CAUTION

Avoid contact with eyes. Harmful if swallowed. Avoid contact with skin and clothing.

PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers must wear:

- 1. Long-sleeved shirt and long pants
- 2. Waterproof gloves
- 3. Shoes plus socks

Follow 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.

USER SAFETY (RECOMENDATIONS

Users should:

- 1. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet
- 2. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing

ENVIRONMENTAL HAZARDS

Do not apply directly to water, to areas where surface water is present or to intertidal area below the high water mark. Do not contaminate water when disposing of rinseate or equipment washwater. Do not contaminate water by cleaning of equipment of disposal of wastes.

CHEMIGATION PROHIBITION

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

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 resposible 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 and restricted-entry intervals. 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:

- 1. Coveralls
- 2. Waterproof gloves
- 3. Shoes plus socks

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal STORAGE: Store in locked area in original container only, with lid tightly closed. Store separately from other pesticides and fertilizers, food and feed to prevent contamination. Use care to avoid puncturing container during storage or transit. In case of a spill or leaking container, call CHEMTREC at 1-800-424-9360. PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide spray mixture or rinsate is a violation of 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: 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 at 1-800-424-9300.

In case of medical emergency regarding this product, call your local doctor for immediate treatment, or your local poison control center (hospital).

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GENERAL INFORMATION

Mepichlor 4.2 is a Micro Flo product which is equivalent to PIX Plant Regulator produced by BASF Corporation. Mepichlor 4.2 is a foiler applied plant regulator. Benefits derived from the use of Mepichlor 4.2 include increased boll retention, reduced plant height which provides a more open canopy, less boll rot, improved defoliation, less trash, and a darker leaf color. These benefits can provide for earlier maturity and often result in improved yields.

Growers may use single or multiple applications. Application rates acre dependent on the number of applications to be made and growing conditions. Multiple applications of low rates provide maximum flexibility under a wide range of growing conditions. Mepichlor 4.2 should not be applied to plants under stress. If stress is alleviated, plants should be evaluated for vegetative growth before additional applications are made. Mepichlor 4.2 may be tank mixed with insecticides/miticides when application timing coincide. (See RESTRICTIONS AND LIMITATIONS)

Fields should be carefully scouted. Mepichlor 4.2 should not be applied if plants are under any form of stress. In the absence of stress, a maximum of four low rate applications can be made each season, generally using 2-4 fl.oz./acre per application. The first application can be applied at the matchhead square stage. The rate and timing of subsequent applications depend on growing conditions and desired benefits. Under good growing conditions, additional treatments of 2-4 fl.oz./acre can be made at 7-14 day intervals. Higher rates of Mepichlor 4.2 (1q/4 - 1/2 pt./acre) should be used if vegetative growth becomes excessive or a greater degree of height control is desired. Do not use more than a total of 24 fl.oz. of Mepichlor 4.2 per acre in a growing season.

SPRAY VOLUMES Thorough coverage is required

IN WATER:

Areas other than California:

Ground Application - Use a minimum of 10 gallons of water per acre.

Aerial Application - Use a minimum of 3 gallons/acre.

California Only:

Ground Application - Use a minimum of 20 gallons/acre.

Aerial Application - Use a minimum of 5 gallons/acre.

IN OIL:

Use a minimum total oil volume of 2 pints/acre for Ultra low volume (ULV) aerial application. Application in oil is permitted only in AL, AR, FL, GA, LA, MO, MS, NC, OK, SC, TN and TX. Use a nonphytotoxic oil concentrate which contains either a petroleum or vegetable oil base, contains only EPA-exempt ingredients and has been used successfully in your locality. The oil diluent should

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contain emulsifiers which provide good mixing quality. If using a vegetable oil based product, only highly refined concentrates should be used.

Mix under constant agitation. Pour one-half of the required volume of oil into the spray tank, and then pour in the Mepichlor 4.2 while the remainder of the oil is added. Constant agitation is required during and after mixing and during application.

RAIN WASH-OFF PRECAUTION

The use of a high quality, EPA exempt surfactant will enhance the uptake of Mepichlor 4.2 into the plant. Therefore, the use of a surfactant allows applications made as little as 4 hours prior to rainfall to be effective. Without a surfactant, the product should be used at least 8 hours prior to expected rainfall.

COMPATIBILITY

Mepichlor 4.2 is water based, and is compatible with most insecticides and miticides. If compatibility is in doubt, perform a jar test to check for compatibility. Mepichlor 4.2 can be used with foliar fertilizers if your prior experience shows the combination is compatible and will not injure cotton under your conditions. Caution should be used when applying with foliar fertilizers under conditions of extreme heat.

RESTRICTIONS AND LIMITATIONS

- * Insect or mite damage to Mepichlor 4.2 treated crops can lead to yiela decreases or other undesirable effects.
- * Do not apply Mepichlor 4.2 to cotton that is under stress. If using low rate multiple applications, discontinue use until your crop has overcome any stress.
- * Do not use Mepichlor 4.2 on the short-staple variety Delta & Pineland 70.
- * Do not apply more than 24 fl. ox. of Mepichlor 4.2 per acre per season.
- * Do not apply Mepichlor 4.2 within 30 days of harvest.
- * Do not graze of feed cotton forage to livestock within 30 days of application.
- * Do not graze or feed cotton forage to livestock at all if applied in oil as a ULV application by air.
- * Mepichlor 4.2 contains a dye and effectiveness is not related to the color of the spray solution.

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

TIME AND RATE OF APPLICATION SHORT-STAPLE AND LONG-STAPLE (PIMA) COTTON

Directions for use should be observed as specified below:

I. SINGLE OR DUAL APPLICATIONS:

Use these instructions when you are not able to start growth regulation treatments early, or when you want to make the fewest number of applications.

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 between 20" and 30" tall, but not more than 7 days beyond early bloom (5-6 blooms per 25 row feet). Also apply if cotton is 24" tall and has no blooms. Use the 8 oz. rate on the cotton where excessive vegetative growth is not expected. Use 16 oz. where excessive growth has historically occurred. See RESTRICTIONS AND LIMITATIONS			
	Second Application: Make another application in 3 to 4 weeks if additional growth control is desired.			
OK, TX,	Areas without a history of excessive vegetative growth:			
(except Rio grande Valley)	First Application: Apply when cotton is in the early bloom stage (5.8 blooms per 25 row feet) and actively growing. Also apply if no blooms are resent and the cotton is 24" tall and actively growing. See RESTRICTIONS AND LIMITATIONS. 8 fl.oz.			
	Make a second application in 3-4 weeks if additional growth control is desired.			
OK, TX	Areas with a history of excessive vegetative growth:			

First Application:

8 fl.oz.

For best results, apply when plants are in early bloom stage (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 28", provided cotton is not more than 7 days beyond early bloom.

See RESTRICTIONS AND LIMITATIONS

Second application:

8 fl.oz.

For fields with a history of excessive growth, or if conditions after the first application favor excessive growth, make a second application in 3 - 4 weeks.

II. LOW-RATE MULTIPLE APPLICATIONS:

Use these instructions when you want to maintain maximum flexibility in plant regulation treatments.

AREA	TIME OF APPLICATION	EXCESSIVE GROWTH NOT EXPECTED OR LOWER RATES HAVE WORKED IN THE PAST.	EXCESSIVE GROWTH EXPECTED OR HIGHER RATES HAVE BEEN NECESSARY IN THE PAST.
AL, AR, AZ, CA,	First Application: Apply at the matchhead	smare	
FL, GA, LA, MO,	stage of growth.	2 fl.oz.	4 fl.oz.
MS, NC, NM, OK, SC, TN, TX, VA,	Second Application: 7-14 days later, or whe regrowth occurs.	en 2-4 fl.oz.*	4-8 fl.oz.*
	Third Application: 7-14 days later, or whe regrowth occurs.	en 2-4 fl.oz.*	4-8 fl.oz.
	Fourth Application: 7-14 days later, or whe regrowth occurs.	en 2-4 fl.oz.*	4-8 fl.oz.*

*Use the higher rate if previous application was not made or if growing conditions favor excessive growth.

+Matchhead square is when the first square of a typical cotton plant is about the size of a match head (about 1/8" in diameter). Make the first application when 50% of the plants have one or more

matchhead squares.

CONDITIONS OF SALE AND WARRANTY

The DIRECTIONS FOR USE of this product 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 MICRO FLO COMPANY ("MICRO FLO") or the seller. All such risks shall be assumed by the buyer.

MICRO FLO warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes set forth in the DIRECTIONS FOR USE when it is used in accordance with such directions, subject to the inherent risks mentioned above. MICRO FLO NEITHER MAKES NOR INTENDS, NOR DOES IT AUTHORIZE ANY AGENT OR REFRESENTATIVE TO MAKE ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, AND IT EXPRESSLY EXCLUDES AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

THIS WARRANTY DOES NOT EXTEND TO, AND THE BUYER SHALL BE SOLELY RESPONSIBLE FOR ANY AND ALL LOSS OR DAMAGE WHICH RESULTS FROM THE USE OF THIS PRODUCT IN ANY MANNER WHICH IS INCONSISTENT WITH THE LABEL DIRECTIONS, WARNINGS, OR CAUTIONS. BUYER'S EXCLUSIVE REMEDY AND MANUFACTURER'S OR SELLER'S EXCLUSIVE LIABILITY FOR ANY AND ALL CLAIMS, LOSSES, DAMAGES OR INJURIES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER OR NOT BASED IN CONTRACT, NEGLIGENCE, STRICT LIABILITY IN TORT OR OTHERWISE SHALL BE LIMITED, AT THE MANUFACTURER'S OPTION TO REPLACEMENT OF, OR THE REPAYMENT OF THE PURCHASE PRICE FOR, THE QUANTITY OF PRODUCT WITH RESPECT TO IN NO EVENT SHALL MANUFACTURER OR WHICH DAMAGES ARE CLAIMED. SELLER BE LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT. MICRO FLO and the seller offer this product, and the Buyer and User accept it, subject to the foregoing CONDITIONS OF SALE AND WARRANTY.