

PM 22 56077-49 Jacket 10/89



U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (7505C)
401 "M" St., S.W.
Washington, D.C. 20460

EPA Reg.
Number:

56077-49

Date of Issuance:

12 1994

NOTICE OF PESTICIDE:

 X Registration
 Reregistration

(under FIFRA, as amended)

Term of Issuance:

Conditional

Name of Pesticide Product:

Pluck Cotton Boll
Opener

Name and Address of Registrant (include ZIP Code):

Cedar Chemical Corporation
5100 Poplar, Suite 2414
Memphis, TN 38137

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/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

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 conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.

2. Make the following label changes listed below before you release the product for shipment:

a. Add the phrase, "EPA Reg. No. 56077-49".

b. In the NOTE in the third paragraph under the heading GENERAL INFORMATION indicate that the note is "for aerial application".

Signature of Approving Official:

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Date:

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3. Submit one (1) copy of your final printed labeling before you release the product for shipment. Refer to the A-79 enclosure for a further description of final printed labeling.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

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

Cynthia Giles-Parker
Product Manager (22)
Fungicide-Herbicide Branch
Registration Division (7505C)

Enclosure

Jacket 3849

PLUCK
COTTON BOLL OPENER

ACTIVE INGREDIENT:
Ethephon: (2-chloroethyl)phosphonic acid*.....55.4%
INERT INGREDIENTS:.....44.6%
TOTAL.....100.0%

*This product contains 6 pounds of (2-chloroethyl)phosphonic acid (Ethephon) per gallon.

EPA Registration No.: 56077-X

EPA Establishment No.:

PRECAUCION AL USUARIO: SI USTED NO LEE INGLES, NO USE ESTE PRODUCTO HASTA QUE LA ETIQUETA LE HAYA SIDO EXPLICADA AMPLIAMENTE.

KEEP OUT OF REACH OF CHILDREN

DANGER - PELIGRO

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Do not induce vomiting. Drink promptly a large quantity of milk, egg whites, gelatin solution, or if these are not available, drink large quantities of water. Avoid alcohol. Get medical attention immediately.

IF ON SKIN: Immediately wash contaminated areas thoroughly with soap and water.

IF IN EYES: Hold eyelids open and flush with a gentle continuous stream of water for at least 15 minutes. Get medical attention, preferably an ophthalmologist.

IF INHALED: Remove victim to fresh air. If not breathing, give artificial respiration. Administer oxygen if necessary. Get medical attention.

ACCEPTED
with COMMENTS
In EPA Letter Dated:

MAY 12 1994

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

56077-49

PRECAUTIONARY STATEMENTS

DANGER

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CORROSIVE: Causes eye and skin damage. May be fatal if absorbed through skin. Harmful if swallowed or inhaled. Avoid breathing spray mist. Do not get in eyes, on skin, or on clothing. Keep away from domestic animals.

NOTE TO PHYSICIAN: There is no specific antidote. All treatment should be based on observed signs and symptoms of distress in the patient. Overexposure to materials other than this product may have occurred.

Victims of severe overexposure, by inhalation, should be kept under medical observation for up to 72 hours for delayed onset of pulmonary edema. In a victim of overexposure by ingestion, careful gastric lavage is required due to the possibility of stomach or esophageal perforation. This material is an acid, but use of alkaline substance to neutralize it is contraindicated.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear coveralls over short-sleeved shirts and short pants, waterproof gloves, chemical-resistant footwear plus socks, protective eyewear, chemical-resistant headgear for overhead exposure and chemical-resistant apron when cleaning equipment or mixing and loading. ✓

Discard clothing and other absorbed materials that have been drenched or heavily contaminated with this products concentrate. Do not reuse them. 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.

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 body thoroughly and put on 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 by disposal of equipment washwaters.

Do not apply directly to water or wetlands (swamps, bogs, marshes, and potholes).

Do not contaminate water used for irrigation purposes.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Read entire label before using this product.

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 regulations.

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), notification to workers 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 48 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 over short-sleeved shirt and short pants, waterproof gloves, chemical-resistant footwear plus socks, protective eyewear and chemical-resistant headgear for overhead exposure.

Notify workers of the application by warning them orally and posting warning signs at entrances to treated areas.

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USE RESTRICTIONS AND PRECAUTIONS

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

Do not apply this product to any other crop but cotton. Do not apply when wind conditions favor drift to adjacent crops or desirable foliage. Plant injury or reduced yields will result.

Do not apply more than 2 pounds of active Ethephon per acre per growing season.

Do not plant another crop within 30 days after treatment.

Do not mix more than can be applied in one day. Do not allow mixed solution to stand overnight.

STORAGE AND DISPOSAL

STORAGE:

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

If container is broken or contents have spilled, follow all precautions indicated above and clean up immediately. Before cleaning up, put on full length trousers, long sleeved shirt, protective gloves, and goggles or face shield. Soak up spill with absorbent media such as sand, earth, or other suitable material and dispose of waste at an approved waste disposal facility. ✓

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 at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL:

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

GENERAL INFORMATION

A foliar spray of PLUCK Cotton Boll Opener aids in opening mature unopened cotton bolls and aids in cotton defoliation resulting in an earlier harvest with an increased yield by making more available for mechanical picking. Treatment may cause some premature drop of immature bolls. Do not apply before sufficient, mature, unopened bolls have developed to produce the desired yield of cotton. Do not apply later than when 60% of the mature bolls are opened.

A cotton boll is mature when it is light brown in color, too hard to be squeezed between the thumb and fingers, and too hard to be sliced with a sharp knife.

Optimum results are achieved by insuring that application spray is uniform to provide thorough coverage. Cotton bolls must be covered by spray to facilitate boll opening. For aerial application apply 2-5 gallons of spray volume (at least 5 gallons for rank cotton) and for ground application apply 15 to 50 gallons of spray volume (25-50 gallons for rank cotton) per acre. Maintain adequate agitation of spray solution. Do not mix more solution than can be applied in one day. NOTE: For California and Arizona use at least 5 gallons of spray volume per acre *for aerial application.*

Weather conditions should be observed closely. Application rates of PLUCK Cotton Boll Opener will be determined by weather conditions expected 5-7 days after treatment. Sustained cool weather with average temperature lower than 65°F after treatment with PLUCK Cotton Boll Opener will delay boll opening. Do not apply PLUCK Cotton Boll Opener if rain is likely within 6-8 hours after application. Reduction of product performance may result if rainfall occurs within 6-8 hours after application. *Refer to label*

PLUCK Cotton Boll Opener is compatible with Dropp¹, Folex², DEF³, Guthion³, Harvade⁴, Malathion⁵, and Methyl Parathion. PLUCK Cotton Boll Opener may be applied in sequence or in tank mix. **DO NOT TANK MIX PLUCK COTTON BOLL OPENER WITH SODIUM CHLORATE DEFOLIANTS AS TOXIC CHLORINE FUMES MAY BE GIVEN OFF.** Do not tank mix with cotton desiccants if cotton is to be spindle picked. Some reduction in boll opening performance may be noted when tank mixing with defoliants. Consult all labels and follow most restrictive directions and precautions.

Cotton should be harvested when optimum plant defoliation and boll opening has occurred, usually 14 to 21 days after treatment with PLUCK Cotton Boll Opener. Maintain constant observation of treated field to determine optimum boll opening and harvest timing.

PLUCK Cotton Boll Opener may cause slightly immature cotton bolls to open resulting in lower quality seed. Certified cotton seed growers should check boll and seed maturity closely before treating with PLUCK Cotton Boll Opener.

Spray deposits of PLUCK Cotton Boll Opener may damage paint surfaces, acrylic, plastics, and metals due to its acidic nature. Rinse aircraft windshields after every load of PLUCK Cotton Boll Opener to prevent permanent clouding of windshield and loss of vision. Thoroughly rinse application equipment after each day of PLUCK Cotton Boll Opener application with a detergent and water. Accidental deposits on cars, buildings, etc. should be rinsed off before paint is stained (about 1 hour).

AMOUNT TO USE

COTTON BOLL OPENING

<u>WEATHER CONDITIONS EXPECTED</u> <u>5-7 DAYS AFTER TREATMENT</u>	<u>RATE OF PLUCK</u> <u>PER ACRE</u>
Dry 80°F or higher	1 1/3 pints
Dry 75° to 80°F	2 pints
Cool 65°F or higher	2 2/3 pints
For rank cotton	2 2/3 pints

Apply when there are sufficient unopened mature bolls to produce the desired yield.

Note: Do not tank mix PLUCK Cotton Boll Opener with a desiccant if the cotton is to be harvested with a spindle-type picker.

Note: Use a minimum of 5 gallons total spray volume per acre in California and Arizona for aerial application.

DEFOLIATION AID

<u>WEATHER CONDITIONS EXPECTED</u> <u>5-7 DAYS AFTER TREATMENT</u>	<u>RATE OF PLUCK</u> <u>PER ACRE</u>
Dry 80°F or higher	2/3 pints
Cool 65°F or higher	1 1/3 pints
For rank cotton	1 1/3 pints

Apply 4-7 days prior to defoliation or tank mixed with the defoliant. Do not tank mix with cotton desiccants unless plant desiccation is desired.

Note: Use a minimum of 5 gallons total spray volume per acre in California and Arizona for aerial application.

Cotton may be pretreated with defoliants to aid in spray coverage of bolls if cotton is rank or laying down thus hampering spray coverage and boll contact. Use boll opening rate.

CONDITIONS OF SALE AND WARRANTY

CEDAR AND SELLER OFFER THIS PRODUCT AND THE BUYER AND USER ACCEPTS THIS PRODUCT UNDER THE FOLLOWING AGREED CONDITIONS OF SALE AND WARRANTY.

The directions for use of the product are believed to be reliable and should be followed carefully. However, it is impossible to take into account all variables and to eliminate all risks associated with its use. Injury or damage may result because of conditions which are beyond the control of Cedar or the Seller. Cedar warrants only that this product conforms to the chemical description on the label and is believed to be reasonably fit for the purposes referred to in the Directions for Use when used as directed under normal conditions. CEDAR MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. In no case shall Cedar or the Seller be liable for consequential, special or indirect damages resulting from the use or handling of this product. Any variation or exception from this warranty must be in writing and signed by an authorized Cedar representative. ✓

¹Dropp is a registered trademark of NOR-AM Chemical Company.

²Folex is a registered trademark of Rhone Poulenc Ag Company.

³Def and Guthion are registered trademarks of Bayer AG Company.

⁴Harvade is a registered trademark of Uniroyal Company.

⁵Malathion is a registered trademark of American Cyanimid Company.