



United States
Environmental Protection Agency
Washington, DC 20460



Registration
Amendment
Other

OPP Identifier Number

225551

Application for Pesticide - Section I

1. Company/Product Number 56077-49	2. EPA Product Manager James Stone	3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) PLUCK Cotton Boll Opener	PM# 22 (acting PM)	
5. Name and Address of Applicant (Include ZIP Code) Cedar Chemical Corp. 5100 Poplar Ave., Suite 2414 Memphis, TN 38137 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

1 stmt. in Storage section should be more clearly stated:
BEFORE: Damaged or leaking containers which cannot be used immediately...
AFTER: Damaged or leaking containers which contain product that cannot be used immediately...

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____	
* Certification must be submitted		If "Yes" Unit Packaging wgt.	No. per container	If "Yes" Package wgt	No. per container
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled		<input type="checkbox"/> Other _____			

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)					
Name Jeanine H. Betsher		Title Mgr., Regulatory Affairs		Telephone No. (Include Area Code) 901-685-5348	
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.					6. Date Application Received (Stamped)
2. Signature 		3. Title Mgr., Regulatory Affairs			
4. Typed Name Jeanine H. Betsher		5. Date 6/5/95			



PLUCK®

Cotton Boll Opener

Active Ingredient: Ethephon (2-chloroethyl)phosphonic acid	55.40%
Inert Ingredients:	44.60%
TOTAL	100.00%

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

EPA Registration No. 56077 - 49

EPA Establishment No.

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.)

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.

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.

AGRICULTURAL CHEMICAL
DO NOT SHIP OR STORE WITH FOOD, FEEDS,
DRUGS, OR CLOTHING.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER

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

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

- Coveralls over short-sleeved shirt and short pants
- Waterproof gloves
- Chemical-resistant footwear plus socks
- Protective eyewear
- Chemical-resistant headgear for overhead exposure
- Chemical-resistant apron when cleaning equipment or mixing & loading

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's 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 thoroughly and put on clean clothing.

ENVIRONMENTAL HAZARDS

Do not apply directly to water, or 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. Do not contaminate water intended for irrigation or domestic purposes. Do not apply when weather conditions favor drift from target area.

FOR CHEMICAL SPILL, LEAK, FIRE, OR EXPOSURE, CALL TOLL FREE 1-800-424-9300

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), notification to workers 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 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
- chemical-resistant headgear for overhead exposure

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

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. Open dumping is prohibited. Do not store this product near fertilizers, seeds, insecticides, or fungicides. Reclose all partially used containers by thoroughly tightening screw cap. Damaged or leaking containers which cannot be used immediately should be transferred to suitable sound containers and properly marked. Absorb any spill with a suitable clay absorbent and dispose of as indicated under "Pesticide Disposal".

For safety and prevention of unauthorized use, all pesticides should be stored in locked facilities.

To prevent accidental misuse, different pesticides should be stored in separate areas with enough distance between to provide clear identification.

Opened, partially used pesticides should be stored in original labeled containers when possible. When transfer to another container is necessary because of leakage or damage, carefully mark and identify contents of the new container.

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, 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 Aerial Application in California and Arizona use at least 5 gallons of spray volume per acre.

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.

PLUCK Cotton Boll Opener is compatible with Dropp¹, Folex², DEF³, Guthion⁴, Harvade⁵, Malathion⁶, 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

WEATHER CONDITIONS EXPECTED 5-7 DAYS AFTER TREATMENT	RATE OF PLUCK PER ACRE
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 AND

WEATHER CONDITIONS EXPECTED 5-7 DAYS AFTER TREATMENT	RATE OF PLUCK PER ACRE
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 mix 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 this 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.

CEDAR CHEMICAL CORPORATION
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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 Unkroyal Company

⁵Malathion is a registered trademark of American Cyanamid Company