



**PLANT REGULATOR FOR COTTON**

FOR COMMERCIAL USE OR AGRICULTURAL USE ONLY. NOT FOR RESIDENTIAL USE.

**ACTIVE INGREDIENT:**

ETHEPHON (2-CHLOROETHYL) PHOSPHONIC ACID\* ..... 39.5%

INERT INGREDIENTS: ..... 60.5%

\*This product contains 4 pounds ethephon per gallon.

EPA REG. NO.

EPA EST. NO. 264-PA-1

KEEP OUT OF REACH OF CHILDREN

**DANGER**

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

IN CASE OF EMERGENCY PHONE COLLECT  
(24 HOURS A DAY) IN U.S.A. (304) 744-3487)

The use of this product for a variety of plant growth regulation uses is protected by various United States and foreign patents including U. S. Patents 3,879,188 and 4,240,819. No license is granted to use this product in countries other than the United States or for any use not contemplated by this label. Liability for patent infringement may result from use or sale of this product outside the United States.

UNION CARBIDE AGRICULTURAL PRODUCTS COMPANY, INC.  
P.O. Box 12014, T. W. Alexander Drive, Research Triangle Park, NC 27709  
MADE IN U.S.A.

CONTENTS 2.5 GALLONS

## PREP Plant Regulator For Cotton

### GENERAL INFORMATION

A foliar spray of PREP Plant Regulator will accelerate opening of mature unopened cotton bolls and enhance defoliation which can result in earlier harvest with an increased recoverable yield. PREP Plant Regulator treatment allows increased efficiency from a once-over harvest.

Some premature drop of small, immature bolls may be associated with treatment. Do not apply before sufficient, mature, unopened bolls have developed to produce the desired yield of cotton.

For best results, thorough and uniform spray coverage is required. It is essential that the bolls are contacted by the spray to obtain optimum boll opening. Observe treated fields closely. Harvest at optimum boll opening and defoliation, generally 14 to 21 days after treatment. Sustained cold weather (65° F or lower) after treatment with PREP Plant Regulator will delay the boll opening response.

Do not apply PREP Plant Regulator if rain is expected within 6 to 8 hours.

### DIRECTIONS FOR USE

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

#### I. CALIFORNIA AND ARIZONA

**Boll Opening:** Apply a foliar spray of 1 to 2 quarts (1-2 lb. a.i.) of PREP Plant Regulator in 5 to 50 gallons water/A when 30 to 50% of the bolls are open, and when there are sufficient mature, unopened bolls to produce the desired yield.

Do not apply cotton defoliants until 4 days after PREP Plant Regulator treatment. Use of defoliants within the 4-day interval may result in decreased or slower boll opening response.

**Preconditioning for defoliation (PREP Plant Regulator followed by defoliant):** Apply a foliar spray of 1.0 to 2 pints (0.50 to 1 lb. a.i.) of PREP Plant Regulator in 5 to 50 gallons water/A, 4 or more days prior to application of defoliant.

#### II. MID-SOUTH, SOUTHWEST, SOUTHEAST

**Boll Opening:** Apply a foliar spray of 2 quarts (2 lb. a.i.) of PREP Plant Regulator in 2 to 50 gallons water/A when 50% or more of the bolls are open, and when there are sufficient mature unopened bolls to produce the desired yield. The use of a defoliant within 4 days after PREP Plant Regulator treatment may result in decreased or slower boll opening response.

**For enhanced defoliation:** Apply a foliar spray of 1 to 2 pints (0.5 - 1 lb. a.i.) of PREP Plant Regulator in 2 to 50 gallons/A.

#### USE PRECAUTIONS

Do not harvest cotton sooner than 7 days after PREP Plant Regulator treatment. Do not tank mix PREP Plant Regulator with defoliants containing sodium chlorate because this results in the formation of hypochlorous acids, upon heating emit toxic chlorine fumes.

Avoid spray drift to nearby crops as this product will cause modifications in plant growth. Plant injury or reduced yields will result.

Do not plant another crop within 30 days after treatment.

Do not use PREP Plant Regulator with any additives other than those specifically recommended on this label.

Mix only the amount of spray you expect to use each day. Do not allow mixed solution to stand overnight.

#### PRECAUTIONARY STATEMENTS

##### Hazards to Humans and Domestic Animals

**DANGER:** Corrosive. Causes eye and skin damage. Do not get in eyes, on skin or on clothing. Wear protective clothing and goggles or face shield when handling. Harmful or fatal if swallowed or absorbed through skin. Avoid contamination of food. Avoid inhalation of spray mist. Wash thoroughly with soap and water after handling and before eating or smoking. Remove and wash contaminated clothing before reuse.

##### STATEMENT OF PRACTICAL TREATMENT

If in eyes, flush with water for at least 15 minutes and call a physician. If on skin or clothing, remove clothing and wash skin thoroughly with soap and water, get medical attention. If inhaled, stop spraying and move to uncontaminated area. If swallowed, promptly drink a large quantity of milk, egg whites, gelatin solution or if these are not available, drink large quantities of water. Avoid alcohol. Call a physician immediately.

**NOTE TO PHYSICIAN:** PREP possesses characteristics of a strong acid. Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsion may be needed.

##### ENVIRONMENTAL HAZARDS

Do not apply directly to water. Do not contaminate water used for irrigation or domestic purposes.

##### STORAGE AND DISPOSAL

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

Pesticide, spray mixture, or rinse water that cannot be used according to label instructions must be disposed of according to applicable Federal, State, or local procedures.

Triple rinse (or equivalent) the empty containers, then offer for recycling or reconditioning, or dispose of in a sanitary landfill, or by incineration if allowed by state and local authorities.

<b>U.S. ENVIRONMENTAL PROTECTION AGENCY</b> <b>OFFICE OF PESTICIDES PROGRAMS</b> <b>REGISTRATION DIVISION (WH 567)</b> <small>WASHINGTON, D.C. 20460</small>	EPA REGISTRATION NO.	DATE OF ISSUANCE
	TERM OF ISSUANCE	
<b>NOTICE OF PESTICIDE:</b> <input type="checkbox"/> REGISTRATION <input type="checkbox"/> REREGISTRATION  <i>(Under the Federal Insecticide, Fungicide,  and Rodenticide Act as amended.)</i>	NAME OF PESTICIDE PRODUCT	
	NAME AND ADDRESS OF REGISTRANT (Include ZIP code)	
<p><b>NOTE:</b> 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.</p> <p>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.</p> <p>A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.</p> <p>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.</p>		
<input type="checkbox"/> ATTACHMENT IS APPLICABLE		
SIGNATURE OF APPROVING OFFICIAL		DATE

Review of Toxicology Data

1. Acute Oral Toxicity Study (rats)

- a. The LD<sub>50</sub> for males was 3.81 (4.66 g/kg) ml/kg.
- b. The LD<sub>50</sub> for females was 2.68 ml/kg (3.27 g/kg).
- c. The study is classified as core-guideline data.
- d. The toxicity category is III - Caution.

2. Acute Dermal Toxicity (rabbits)

- a. The LD<sub>50</sub> for males with intact skin was 1.0 g/kg.
- b. The LD<sub>50</sub> for males with abraded skin was 1.0 g/kg.
- c. The LD<sub>50</sub> for females with intact skin was 1.0 g/kg.
- d. The LD<sub>50</sub> for females with abraded skin was 1.0 g/kg.
- e. The study is classified as core-guideline data.
- f. The Toxicity Category is II - Warning.

3. Eye Irritation Study (rabbits)

- a. This study is classified as core-guideline data.
- b. The toxicity category is I - Danger.

4. Primary Skin Irritation Study (rabbits)

- a. Each dosed spot had slight erythema around the necrosed area and slight edema in 6/6 animals at 24 and 72 hours.
- b. Erythema was not scored due to necrosis of the area.
- c. Necrosis and scab formation persisted through day 14.
- d. Desquamation present at day 10 and persisted through day 14.
- e. The study is classified as core-guideline data.
- f. The toxicity category is I - Danger.

5. An acute inhalation study was not submitted. One must be submitted or cited.
6. The Accession Number for these data is 248658.

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Enclosure