

PM 22 269-207

ACCEPTED  
JACK 1044  
MAR 3 1993  
Under the Federal Insecticide, Fungicide, and Rodenticide Act, it is amended for the pesticide registered under

# ETHREL<sup>®</sup> Ethephon Plant Regulator For Pineapple and Sugarcane

**FOR COMMERCIAL OR AGRICULTURAL USE ONLY. NOT FOR RESIDENTIAL USE 204-257**

For Flower Induction and Maturity Concentration in Pineapple  
For Flower Prevention and Biomass Increase in Sugarcane (Hawaii Only)

**ACTIVE INGREDIENT:**

Ethephon [(2-chloroethyl) phosphonic acid]\* .....39.9%

**INERT INGREDIENTS:** .....60.1%

\*This product contains 4 pounds ethephon per gallon.

EPA Reg. No. 264-257

EPA Est. No. 264-PA-01

## KEEP OUT OF REACH OF CHILDREN DANGER PELIGRO

**PRECAUCION AL USUARIO:** Si usted no lee ingles, no use este producto hasta que la informacion en la etiqueta le haya sido explicado ampliamente.

For **MEDICAL** And **TRANSPORTATION** Emergencies **ONLY** Call 24 Hours A Day 1-800-334-7577  
For **PRODUCT USE** Information Call 1-800-334-9745

The use of this product for a variety of plant growth regulation uses is covered by 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.

### STATEMENT OF PRACTICAL TREATMENT

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

Call a physician in cases of suspected poisoning. If poisoning is suspected in animals, call a veterinarian.

**IF SWALLOWED:** Do not induce vomiting. 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.

**IF ON SKIN:** Immediately wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash clothing separately before reuse.

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

**NOTE TO PHYSICIAN**

No specific antidote is available. All treatments 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 the use of alkaline substances to neutralize it is contraindicated.

### PRECAUTIONARY STATEMENTS

#### DANGER HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Corrosive. Causes irreversible eye damage. Harmful if swallowed, inhaled or absorbed through the skin. Do not get in eyes, on skin, or on clothing. Avoid breathing vapor or spray mist. Wear goggles or face shield and rubber gloves when handling. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. Keep away from domestic animals. Avoid contamination of food.

#### ENVIRONMENTAL HAZARDS

Avoid spray drift. Do not apply when weather conditions may cause drift. Do not allow this product to drift on to non-target areas. Drift may result in illegal residues or injury to adjacent crops.

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 when disposing of equipment washwaters. Do not contaminate water used for irrigation or domestic purposes.

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2044

## 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.

### IMPORTANT

Do not use this product for purposes other than those listed on the label. Do not exceed the rate of ETHREL® Ethephon Plant Regulator per acre per year recommended on this label.

Do not apply ETHREL® Ethephon Plant Regulator For Pineapple and Sugarcane through any type of irrigation system.

### GENERAL WORKER PROTECTION STATEMENT

Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons.

Mixers, loaders and applicators must wear a full face shield, long trousers, long sleeved shirt, gloves, and boots to avoid as much skin and eye contact as possible.

Do not enter treated fields within 24 hours after application unless protective clothing is worn.

Because certain states may require more restrictive reentry intervals for various crops treated with this product, consult your State Department of Agriculture for further information.

Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. Advise workers to stay out of fields during application. Regular long-sleeved work clothing should be worn when working in treated fields. See PRECAUTIONARY STATEMENTS, STATEMENT OF PRACTICAL TREATMENT and NOTE TO PHYSICIAN for information on accidental exposures. When oral warnings are given, warnings shall be given in a language customarily understood by workers. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. Written warnings must include the following information: Appropriate signal word (DANGER), area treated with ETHREL® Ethephon Plant Regulator For Pineapple And Sugarcane, date of application, appropriate protective clothing, and reentry interval.

## STORAGE AND DISPOSAL

### STORAGE

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

### PESTICIDE DISPOSAL

Pesticide wastes are hazardous. Do not contaminate water, food, or feed by storage or disposal. 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). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, by incineration or if allowed by state and local authorities, by open burning. If burned, stay out of smoke.

## GENERAL INFORMATION

When ETHREL® is applied to plants, the product decomposes within the plant tissue to release ethylene, a naturally occurring plant hormone.

### PINEAPPLE FLOWER INDUCTION

Application of ETHREL® will induce uniform flower initiation of pineapple plants.

### PINEAPPLE MATURITY CONCENTRATION

Application of ETHREL® will stimulate uniform shell color of pineapple fruit.

### SUGARCANE FLOWER PREVENTION

A foliar spray of ETHREL® will reduce or prevent flowering of sugarcane.

### SUGARCANE BIOMASS INCREASE

ETHREL® application to prevent flowering can result in increased biomass accumulation and increased recoverable sugars.

For recommendations on rates, spray volumes, and spray equipment under varying temperature and rainfall conditions consult your Extension specialist, Rhône-Poulenc Ag Company Representative or farm agronomist for his experience with this product in your area.

### SPRAY PREPARATION

Add 1/2 to 3/4 of the required amount of water to the spray tank. Start agitation. Add the required amount of ETHREL®, and the remaining amount of water. Prepare only as much spray solution as can be used on the day of mixing. Use of previous day's spray mix may result in reduced activity.

Do not spill the concentrated product on spray equipment, or any airplane parts. ANY SPILLS SHOULD BE IMMEDIATELY RINSED WITH PLENTY OF WATER AS ETHREL® IS CORROSIVE. Use of a nurse tank is highly recommended for avoiding possible spills of concentrated formulation on spray equipment.

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**EQUIPMENT CLEANING**

Because of the acidic nature of this product, prolonged exposure to spray deposit will damage acrylic plastics, certain paints and metals.

Rinse thoroughly with detergent and water all exposed acrylic plastic-type materials (e.g. aircraft windshields), and painted surfaces within an hour after exposure to spray deposits.

At the end of each day, rinse thoroughly with detergent and water all metal parts of the aircraft and the associated spray equipment exposed to the spray deposits.

CROP AND USE	RATE PER ACRE	SPRAY VOLUME	APPLICATION TIMING	SPECIFIC COMMENTS	RESTRICTIONS
<p><b>PINEAPPLE</b></p> <p><b>Flower Induction</b> ETHREL® applied to pineapple plants will stimulate uniform initiation of flowering.</p>	<p>1 to 2 quarts</p>	<p>100 to 500 gal/A</p>	<p>'Bearing age' about 12 months after planting. Generally about 6 months prior to desired harvest.</p>	<p>Proper rate will vary with local growing conditions, varieties, plantation management practices and time of year. Use the higher rate where earlier harvest is desired. Apply when pineapple foliage is dry.</p>	<p>Do not graze pineapple forage treated with ETHREL® Plant Regulator. Do not harvest pineapples treated with ETHREL® Plant Regulator sooner than 2 days after the last application.</p>
<p><b>Maturity Concentration</b> ETHREL® application will stimulate uniform shell color development</p>	<p>1/2 to 1 quart</p>	<p>100 to 300 gal/A</p>	<p>When the first fruit begin to change color.</p>	<p>Use a broadcast spray, thoroughly cover both foliage and fruit. Use the higher rate during periods of cool or cloudy weather when normal ripening has slowed.</p>	<p>✓</p>
<p><b>SUGARCANE</b></p> <p><b>Flower Prevention</b> ETHREL® application will prevent or reduce flowering and pithy tissue formation.</p> <p><b>Biomass Increase</b> ETHREL® used to prevent flowering can also result in increased biomass accumulation and recoverable sugar yield.</p>	<p>1 pint</p>	<p>7 gal/A minimum</p>	<p>Just prior to flower initiation.</p>	<p>Apply by fixed wing or helicopter using equipment designed to give uniform coverage.</p> <p>Actual biomass increase will be affected by the time between treatment and harvest.</p> <p>Consider anticipated recoverable sugars as well as biomass to determine optimum harvest date.</p>	<p>Do not harvest sugarcane treated with ETHREL® Plant Regulator sooner than 2 months after the last application. Do not graze sugarcane forage treated with ETHREL®.</p> <p>For Use in Hawaii Only.</p>

4024

## LIMITED WARRANTY AND DISCLAIMER

The manufacturer warrants that this product conforms to the chemical description on the label; that this product is reasonably fit for the purposes set forth in the directions for use when it is used in accordance with such directions; and that the directions, warnings and other statements on this label are based upon responsible experts' evaluation of reasonable tests of effectiveness, of toxicity to laboratory animals and to plants, and of residues on food crops and upon reports of field experience. Tests have not been made on all varieties or in all states or under all conditions. THE MANUFACTURER NEITHER MAKES NOR INTENDS, NOR DOES IT AUTHORIZE ANY AGENT OR REPRESENTATIVE TO MAKE, ANY OTHER WARRANTIES, EXPRESS 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, 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.

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### NOTICE TO BUYER

Purchase of this material does not confer any rights under patents governing this product or the use thereof in countries outside of the United States.

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ETHREL is a registered trademark of Rhône-Poulenc.

ETHREL® Ethephon Plant Regulator for Pineapple and Sugarcane (PENDING) Submitted 1/18/93.