

Reg. # 264-377  
**ACCEPTED**  
MAR 29 1985  
Under the Federal Insecticide, Fungicide, and Herbicide Act as amended, for the pesticide registered under EPA Reg. No. 264-377

**CERONE® Plant Regulator**

**For Reducing Lodging in Barley and Wheat**

**For Agricultural or Commercial Use Only  
Not For Residential Use**

**ACTIVE INGREDIENT:**

Ethephon (2-chloroethyl) phosphonic acid" . . . . . 39.9%

**INERT INGREDIENT:** . . . . . 60.1%

\*Contains four pounds ethephon per gallon

EPA Reg. No. 264-377

EPA EST NO. 264-PA-01

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**KEEP OUT OF REACH OF CHILDREN**

**DANGER**

**Precautionary Statements: See Inside Booklet**

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**IN CASE OF EMERGENCY, TELEPHONE COLLECT (24 HOURS A DAY) IN THE U.S.A.  
(304) 744-3487  
FOR GENERAL PRODUCT INFORMATION 800-334-9745**

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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.  
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Made in USA

CONTENTS: 2.5 Gal.

Do Not Detach Booklet From Container

## GENERAL INFORMATION

CERONE Plant Regulator is intended to be used only as an antilodging agent on intensively managed barley and wheat crops that are likely to lodge.

Vigorously growing small grain cereal crops in fertile soils are likely to lodge. Lodging often decreases recoverable grain yields, and increases harvesting costs. Lodging also contributes to uneven maturity, higher moisture content, loss of grain quality due to sprouting and possible molding.

CERONE Plant Regulator reduces the plant height and increases the straw strength, thus providing greater resistance to lodging. A standing crop would allow for more efficient harvesting and improved grain recovery. CERONE Plant Regulator also reduces "necking" in barley and the resultant yield decrease due to ear loss prior to harvest.

## IMPORTANT NOTES

Management practices aimed at maximizing grain yields can produce conditions conducive to disease development.

If rust, septoria, or mildew disease infestations are present, CERONE treatment may enhance the severity of the disease.

Growers planning to use CERONE Plant Regulator should plant disease-resistant varieties or monitor their crop for disease and use effective fungicides.

Do not apply CERONE Plant Regulator to crops already lodged, severely infected with rust or other diseases, or damaged by insects.

Do not apply CERONE Plant Regulator to crops under severe moisture stress.

Do not add surfactants or wetting agents to CERONE Plant Regulator other than those recommended on this label.

Do not apply CERONE Plant Regulator if rain is expected within 5 hours.

CERONE Plant Regulator treatment provides greater resistance to lodging and higher than normal rates of supplemental nitrogen can be considered. Consult local extension services for fertilizer recommendations.

For CERONE Plant Regulator to be effective, the average day time temperature following application should reach at least 60°F. It requires at least 7 days for CERONE to provide adequate lodging protection.

CERONE Plant Regulator treatment may produce undesirable secondary tillers in some spring barley varieties especially under moisture stress. Treatment is not recommended for Azure barley.

CERONE Plant Regulator should only be used in vigorously growing grain crops that are likely to lodge and which have maximum yield potential. Do not apply CERONE Plant Regulator to crops grown under low fertility conditions, or seeded later than locally recommended.

Dwarf or semi-dwarf wheat varieties with known good standability should not be treated with CERONE Plant Regulator.

DO NOT GRAZE ON FORAGE TREATED CROP OR CUT FOR HAY OR SILAGE.

**COMPATIBILITY**

CERONE Plant Regulator can be tank-mixed with most of the fungicides currently registered for wheat and barley. The addition of Triton CS-7 to Mancozeb wettable powder fungicide can be used in MN, ND and SD. Consult your local Union Carbide field representative for specific recommendation.

**DIRECTIONS FOR USE**

IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELING.

For use on barley in the states of CA, OR, WA, ID, UT, AZ, CO ~~WY~~ <sup>Delits by Durbott</sup>. For use on wheat and barley in all other states.

Barley and Wheat - Apply 0.5 to 1.0 pint CERONE Plant Regulator in 3 to 25 gallons water per acre by air or ground equipment. With low volume controlled droplet ground equipment, use a lower rate of CERONE Plant Regulator. Use the higher rate (1.0 pint) for extremely vigorous crops. Apply between early boot to late boot stages, but before the awns or spikes have begun to emerge. The spike or head should never be exposed to spray solution.

MAKE ONLY ONE APPLICATION PER YEAR TO WHEAT AND BARLEY.

See the illustration below for growth stages and proper time for CERONE Plant Regulator application.



GROWTH DESCRIPTION	Two leaves (seedling)	Two leaves (seedling)	Flag leaf (ear visible)	Flag leaf (spike visible)	Boot visible	Two leaves (mature)
Feeder - Large Boot	0	1	0	0	10	100



## PRECAUTIONARY STATEMENTS

### DANGER

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Corrosive. Causes eye damage and skin irritation.

Do not get in eyes, on skin or on clothing

Harmful or fatal if swallowed.

Avoid contamination of food.

Avoid inhalation of spray mist as vapors from this product will irritate skin and mucous membranes.

#### STATEMENT OF PRACTICAL TREATMENT

IF ON SKIN: Flush immediately with plenty of water for at least 15 minutes

IF INHALED: Stop spraying and move to uncontaminated area.

IF IN EYES: Flush immediately with plenty of water for at least 15 minutes and call a physician.

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

This material possesses the characteristics of a strong acid, and may cause mucosal damage by swallowing. Do not induce vomiting. Gastric lavage should be undertaken with care if necessary. Appropriate conventional treatment for circulatory shock, respiratory depression and convulsions may be needed.

#### ENVIRONMENTAL HAZARDS

Do not contaminate water used for irrigation or domestic purposes.

Do not apply directly to water

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.

#### IMPORTANT

Do not use this product for purposes other than those listed on the label.

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

## STORAGE AND DISPOSAL

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

## 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). 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.

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## LIMITED WARRANTY AND DISCLAIMER

The manufacturer warrants (a) that this product conforms to the chemical description on the label; (b) that this product is reasonable fit for the purposes set forth in the directions for use when it is used in accordance with such directions; and (c) 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, EXPRESSED OR IMPLIED AND IT EXPRESSLY EXCLUDES AND DISCLAIMS ALL IMPLIED WARRANTIES OR MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

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