



Plant Regulator

For Reducing Lodging in Barley and Wheat
For Agricultural or Commercial Use Only. Not For Residential Use.

ACTIVE INGREDIENT Ethephon (2-chloroethylphosphonic acid) 100%

INERT INGREDIENTS 0%

Net Weight 1.000 lb (453.592 g)

EPA Reg. No. 264-377

EPA Est. No. 264-PA-01

KEEP OUT OF REACH OF CHILDREN
DANGER

FOR ADDITIONAL PRECAUTIONARY STATEMENTS See Inside Booklet

For **EMERGENCY** Information **ONLY** Call 24 Hours A Day 1-800-334-7577

RHONE-POULENC AG COMPANY

1000 W. W. Anderson Drive

St. Louis, Missouri 63102

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MADE IN U.S.A.

1000 W. W. Anderson Drive

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PRECAUTIONARY STATEMENTS

DANGER

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Corrosive. Causes irreversible eye damage. Causes skin irritation. Do not get in eyes, on skin or on clothing. Wear full-length trousers, long-sleeved shirt, protective gloves, and goggles or face shield when handling. Harmful or fatal if swallowed. Avoid contamination of food. Avoid inhalation of spray mist. May cause respiratory irritation. Change to clean work clothes daily. Wash thoroughly with soap and water after handling and before eating, drinking or using tobacco. Remove and wash contaminated clothing before reuse. Keep away from domestic animals.

STATEMENT OF PRACTICAL TREATMENT

GENERAL

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

IF ON SKIN: Flush immediately with plenty of water for at least 15 minutes. Remove contaminated clothing.

IF INHALED: Stop spraying and move to uncontaminated area. Call a physician.

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

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.

NOTE TO PHYSICIAN

There is no specific antidote. Treatment should be directed at the control of symptoms and clinical conditions. This material possesses the characteristics of a strong acid, and may cause mucosal damage if swallowed. Do not induce vomiting. Gastric lavage should be undertaken with care if considered 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 spray directly to water or wetlands (swamps, bogs, marshes, and potholes).

Avoid spray drift to nearby crops as drift may cause temporary modifications in plant growth. Plant injury to nearby crops will result. Do not plant another crop within 30 days after treatment.

Do not use water from wash water for equipment washwaters.

IMPORTANT

Do not apply to plants or crops that are in bloom or about to bloom.

GENERAL INFORMATION

CERONE® Plant Regulator is intended to be used only for lodging reduction in barleys that are managed for high yield and are likely to lodge. Lodging often decreases yield and increases harvesting costs. Lodging also contributes to uneven maturity, high moisture content, and loss of grain quality.

Lodging reduction allows for more efficient harvesting and improved grain recovery. Regulator increases straw strength, and usually reduces plant height thus providing resistance to lodging. The degree of shortening varies with variety and environmental conditions. Regulator also reduces "necking" in barley and the resultant yield decreases due to harvest.

Since CERONE® Plant Regulator treatment provides greater resistance to lodging, grain yields may be managed for an optimum yield goal. Variety selection, seeding, fertilization, and insect control are important considerations. Consult your local extension service for your area.

IMPORTANT NOTES

CERONE® Plant Regulator should be used only on vigorously growing grain crops. Management practices aimed at maximizing economic grain yields can produce resistance to disease development. If rust, septoria, or mildew disease infestations are present, Regulator treatment may enhance the severity of the disease. Growers planning to use fungicides should plant disease-resistant varieties or monitor their crop for disease.

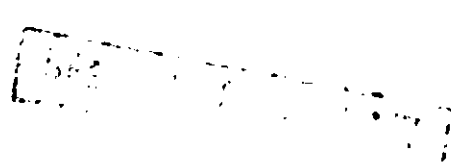
Do not apply CERONE® Plant Regulator to crops already lodged, severely injured by diseases, or damaged by insects.

Do not apply CERONE® Plant Regulator to crops under moisture stress or on saline soils. Moisture stress may occur. Sufficient soil moisture should be available after application to avoid possible yield loss.

IRRIGATION AREAS

Prior to treatment with CERONE® Plant Regulator, irrigation is recommended. Irrigation may be resumed 24 hours after treatment and should be resumed if irrigation is stopped and continued until grain head filling is completed. Moisture and/or heat stress during grain filling periods have been shown to cause loss of significant yield potential. With CERONE® Plant Regulator use, avoiding plant stress during these growth periods is essential in obtaining optimum grain quality.

CERONE® Plant Regulator may delay heading approximately 1-2 days and harvest maturity 1-4 days. Further maturity delay may result if extreme temperature conditions such as hot (95° F), cold (less than 35° F) or wide temperature fluctuations occur within 7 days after application. Do not apply CERONE® Plant Regulator if freezing conditions are expected within 7 days.



Do not apply CERONE® Plant Regulator to crops seeded later than local recommendation. This is especially important in small grain production areas with short growing seasons where possible maturity delay may increase harvest difficulties.

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 or Tyler wheat.

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

Do not add surfactants or wetting agents to CERONE® Plant Regulator other than those recommended on the label. Do not mix CERONE® Plant Regulator with herbicides or fungicide solutions.

Do not mix CERONE® Plant Regulator with insecticides.

Do not apply CERONE® Plant Regulator to rain. Rain is expected within 4 hours.

For CERONE® Plant Regulator to be effective, the average daily air temperature following application should remain at or above 60°F. A frost-killing protection begins 7 days or more after treatment.

Product quality decreases with age if CERONE® Plant Regulator is not properly used.

DO NOT GRAZE OR FORAGE TREATED CROPS OR CUT FOR HAY OR SILAGE. Mature straw at normal harvest may be consumed by animals.

SPRAY PREPARATION

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.

Add 1/2 gallon of the required amount of water to the spray tank and begin agitation. Add the required amount of CERONE® Plant Regulator followed by the remaining amount of water. Prepare only as much spray solution as can be used in the day of mixing. Do not allow spray solution to stand overnight.

Do not spill the concentrated product on spray equipment or any airplane parts. **ANY SPILLS SHOULD BE RINSED IMMEDIATELY WITH PLENTY OF WATER.** AS CERONE® PLANT REGULATOR IS CORROSIVE. Use caution with spray equipment to prevent possible spills of concentrated product from spray equipment or airplane parts.

EQUIPMENT CLEANING

Residue of CERONE® Plant Regulator on spray equipment or airplane parts will damage acrylic plastic. Rinse and wash all equipment thoroughly with a detergent and water after exposed acrylic plastic equipment is used. Wash with detergent and water within an hour after exposure to spray solution. **At the end of each day** thoroughly spray with a detergent and water the spray system and airplane parts to remove all residue of the spray deposits.

COMPATIBILITY

CERONE® Plant Regulator can be tank mixed with approved aerial fungicides including Tilt®, Bayleton®, and Mancozeb. Do not mix with Mancozeb or other Mancozeb products. Do not mix with Mancozeb fungicide products. Other spray adjuvants may be used if approved. Adequate spray tank agitation is recommended when using CERONE® Plant Regulator tank mixed with herbicides or fungicide solutions.

DIRECTIONS FOR USE

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

Do not apply CERONE® Plant Regulator through any type of irrigation system.

APPLICATION TIMING

Apply when the flag leaf is just visible to boot stage, but before the awns or spikes have emerged (Feekes-Large Scale 8-10, Zadok's Code 37-45). The spikes or head should never be exposed to spray solution, as damage and reduced yield may result. Inspect fields carefully to determine the proper stage.

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

GROWTH STAGE CHART



GROWTH DESCRIPTION	1st NODE DETECTABLE	2nd NODE DETECTABLE	FLAG LEAF JUST VISIBLE	FLAG LEAF LIGULE VISIBLE	BOOT SWOLLEN	1st SPIKELET VISIBLE
Feekes-Large Scale	6	7	8	9	10	10.1
Zadok's Code	31	32	37	34	45	50

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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 reasonably 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 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.

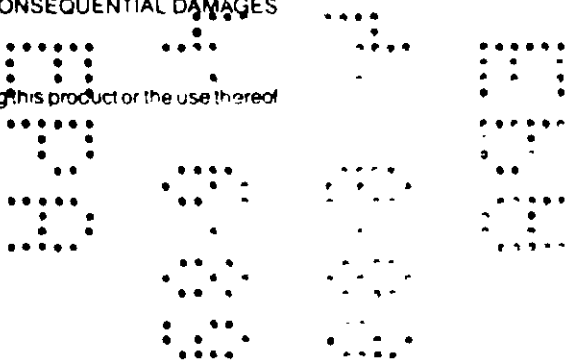
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Tilt is a registered trademark of Ciba-Geigy Corp
Dithane is a registered trademark of Rhom and Haas Corp
Manzate is a registered trademark of E. I. du Pont de Nemours & Co.



ACCEPTED
MAY - 9 - 1972
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended for the pesticide registered under EPA Reg. No. 101-108-01

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