

pm 22

264-376

186

Tacket

MAR 26 1993

Mr. Warren A. Davis
Rhone-Poulenc Ag Company
P.O. Box 12014, 2 T.W. Alexander Drive
Research Triangle Park, NC 27709

Dear Mr. Davis:

Subject: Addition of Maximum Use Rate and Number of Treatments
CERONE-2 Ethephon Plant Regulator
EPA Registration No. 264-376
Your Submission Dated March 22, 1993

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended is acceptable provided that you:

1. Make the labeling changes listed below before you release the product for shipment bearing the amended labeling:

- Modify the Environmental Hazards Statement to include the following statement:

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark.

2. Submit one (1) copy of your final printed labeling before you release the product for shipment.

A stamped copy of the labeling is enclosed for your records.

Please note that we are returning the original letter and stamped accepted label for EPA Reg. No. 264-377. You should keep these for your records.

Sincerely yours,

Jew

for Cynthia Giles-Parker
Product Manger (22)
Fungicide Herbicide Branch
Registration Division (H7505C)

Enclosure

cc: Judy Loranger
Reregistration Branch
Special Review and Reregistration Division (H7508W)

MAR 26 1993

CERONE[®]-2 Plant Regulator

For Reducing Lodging in Barley and Wheat

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

Under the Federal Insecticide
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No. 264-376

ACTIVE INGREDIENT: Ethephon [(2-chloroethyl) phosphonic acid]..... 21.7%
INERT INGREDIENTS:..... 78.3%

*Contains 2 pounds ethephon per gallon

EPA Reg. No. 264-376

EPA EST NO. 264-PA-01

KEEP OUT OF REACH OF CHILDREN

WARNING

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

TRANSLATION TO THE USER: If you cannot read English do not use this product until the label has been explained to you.

For EMERGENCY INFORMATION ONLY Call 24 Hours A Day 1-800-521-8235

For PRODUCT HANDLING, USE AND GENERAL 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.

PRECAUTIONARY STATEMENTS

WARNING HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Harmful if swallowed. May cause eye damage. Wear safety goggles when handling. Avoid contact with skin or clothing and do not inhale vapors as this product will irritate skin and mucous membranes

STATEMENT OF PRACTICAL TREATMENT

In case of splashing into eyes, flood eyes immediately with plenty of water for at least 15 minutes and get medical attention.

In case of skin contact, wash immediately with plenty of soap and water and remove contaminated clothing. Avoid contamination of food. If taken internally, call a physician and promptly drink large quantities of milk, egg white, gelatin solution or if these are not available, large quantities of water.

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 apply CERONE[®]-2 Plant Regulator through any type of irrigation system.

Do not contaminate water used for irrigation or domestic purposes.

Do not apply directly to water or wetland (swamps, bays, marshes, and potholes). Do not contaminate water when disposing of equipment washwaters.

Avoid spray drift to nearby crops as this product will cause modifications in plant growth. Plant injury or reduced yield will result. Do not exceed the rate of CERONE[®]-2 Plant Regulator per acre per year recommended on this label. Do not plant and/or 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 the solution to stand overnight.

BEST AVAILABLE COPY

GENERAL INFORMATION

CERONE®-2 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®-2 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®-2 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®-2 Plant Regulator treatment may enhance the severity of the disease.

Growers planning to use CERONE®-2 Plant Regulator should plant disease-resistant varieties or monitor their crop for disease and use effective fungicides.

Do not apply CERONE®-2 Plant Regulator to crops already lodged, severely infected with rust or other diseases, or damaged by insects.

Do not apply CERONE®-2 Plant Regulator to crops under severe moisture stress.

Do not add surfactants or wetting agents to CERONE®-2 Plant Regulator other than those recommended on this label.

Do not apply CERONE®-2 Plant Regulator if rain is expected within 5 hours.

CERONE®-2 Plant Regulator treatment provides greater resistance to lodging and therefore higher than normal rates of supplemental nitrogen can be considered. Consult local extension services for fertilizer recommendations.

For CERONE®-2 Plant Regulator to be effective, the average daytime temperature following application should reach at least 60° F. It requires at least 7 days for CERONE®-2 Plant Regulator to provide adequate lodging protection.

CERONE®-2 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®-2 Plant Regulator should only be used on vigorously growing grain crops that are likely to lodge and which have maximum yield potential. Do not apply CERONE®-2 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®-2 Plant Regulator.

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

Do not harvest barley or wheat treated with CERONE®-2 Plant Regulator sooner than 40 days after the last application.

COMPATIBILITY

CERONE®-2 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 Rhône-Poulenc field representative for specific recommendations.

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.

GENERAL WORKER PROTECTION AND REENTRY STATEMENTS

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.

Barley and Wheat - Apply 1.0 to 2.0 pints CERONE®-2 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®-2 Plant Regulator. Use the higher rate (2.0 pints) 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 growing season and do not exceed a maximum rate of 2.0 pints.

BEST AVAILABLE COPY

See the illustration below for growth stages and proper time for CERONE®-2 Plant Regulator application.



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
----- RECOMMENDED TREATMENT TIME -----						

STORAGE AND DISPOSAL

STORAGE AND DISPOSAL

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

PESTICIDE DISPOSAL

Wastes resulting from the use of this product may be disposed on site or at an approved waste disposal facility.

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.

BEST AVAILABLE COPY

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 direction 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, EXPRESS OR IMPLIED, AND IT EXPRESSLY EXCLUDES AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

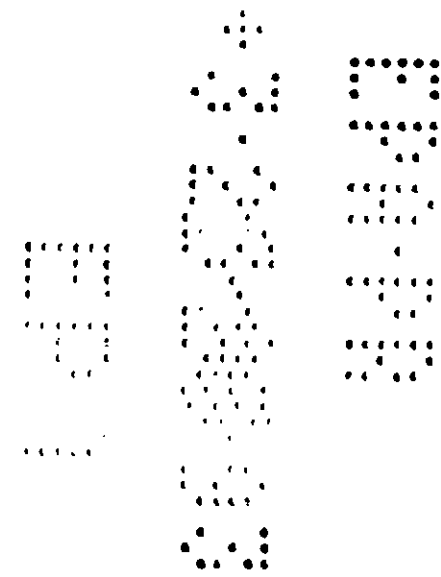
THIS WARRANTY DOES NOT EXTEND TO, AND THE BUYER SHALL BE SOLELY RESPONSIBLE FOR, ANY AND ALL LOSS OR DAMAGE WHICH RESULTS FROM THE USE OF THIS PRODUCT IN ANY MANNER WHICH IS INCONSISTENT WITH THE LABEL DIRECTIONS, WARNINGS OR CAUTIONS.

BUYER'S EXCLUSIVE REMEDY AND MANUFACTURER'S OR SELLER'S EXCLUSIVE LIABILITY FOR ANY AND ALL CLAIMS, LOSSES, DAMAGES OR INJURIES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER OR NOT BASED IN CONTRACT, NEGLIGENCE, STRICT LIABILITY IN TORT OR OTHERWISE SHALL BE LIMITED, AT THE MANUFACTURER'S OPTION, TO REPLACEMENT OF, OR THE REPAYMENT OF THE PURCHASE PRICE FOR, THE QUANTITY OF PRODUCT WITH RESPECT TO WHICH DAMAGES ARE CLAIMED. IN NO EVENT SHALL MANUFACTURER OR SELLER BE LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.

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.

BEST AVAILABLE COPY



Rhône-Poulenc Ag Company
P.O. Box 12014, 2 T.W. Alexander Drive
Research Triangle Park, North Carolina 27709

CERONE is a registered trademark of RHONE-POULENC.
CERONE®-2 Plant Regulator (PENDING) Submitted 1/25/93.