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8340-15

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OCT 29 1992

Berthold Volger, Ph.D.
Hoechst Celanese Corporation
P.O. Box 2500
Somerville, NJ 08876-1258

Dear Dr. Volger:

Subject: Revision of Restricted Use and Precautionary Statements
Brestan H 47.5 WP
EPA Registration No. 8340-15 ✓
Your Submissions Dated October 2, 1992

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:

- The directions for tank mixing must include the sites or crops for which the tank mix claims are made. Refer to PR Notice 82-1. You should delete the statement "We do not recommend mixture with the above unless testing or prior experience has show the mixture to be non-phytotoxic to the crop". Specific tank mix directions should included on the label.

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

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

Sincerely yours,

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

Enclosure

cc: Margaret Rice, Special Review Branch
Eric Ferris, Reregistration Branch
Special Review and Registration Division (H7508W)

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RESTRICTED USE PESTICIDE

Because of the high acute toxicity of triphenyltin hydroxide and its potential for affecting fetal development, this product may be applied only by certified applicators or persons directly under their supervision.

BRESTAN[®] H 47.5 WP FUNGICIDE

(in water soluble bag)

**DO NOT OPEN UNTIL READY TO USE
DO NOT USE LESS THAN FULL BAG**

A FUNGICIDE FOR CONTROL OF:

- *EARLY & LATE BLIGHT ON POTATOES *LEAFSPOT ON SUGAR BEETS
*SCAB & CERTAIN OTHER DISEASES ON PECANS**

**ACCEPTED
with COMMENTS
In EPA Letter Dated:**

OCT 29 1992

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

8340-15

ACTIVE INGREDIENT:

Triphenyltin hydroxide* **47.5%**

INERT INGREDIENTS: 52.5%

*Equivalent to 15.3% Metallic Tin **100.0%**

Contains 15.2 ounces per bag

UNAVAILABLE COPY

KEEP OUT OF REACH OF CHILDREN

DANGER -- PELIGRO

POISON.

IF ON SKIN: Wash with plenty of soap and water.

IF INHALED: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

IF IN EYES: Flush with plenty of water. Call a physician.

IF SWALLOWED: Do not induce vomiting. Drink promptly a large quantity of milk, egg whites, gastric antacid, etc. if these are not available, drink large quantities of water. Call a physician or Poison Control Center.

"PRECAUCION AL USUARIO: Si usted no lee ingles, no use este producto hasta que le expliquen como usarlo en su idioma."

See Additional Precautionary Statements.

NET CONTENTS: TWO POUNDS

Hoechst Celanese

**EPA REG. NO. 8340-15
EPA EST. NO. 2340-WB-3**

Hoechst

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS & DOMESTIC ANIMALS DANGER - PELIGRO

DANGER: Fatal if inhaled. Corrosive, causes irreversible eye damage. May be harmful or fatal if swallowed or absorbed through the skin. Do not get in eyes, or on skin. Do not breathe dust, vapor or spray mist. When handling either products containing TPTH or spray-diluted mixtures, wear protective clothing cotton overalls over long pants and long sleeve shirt, chemical resistant gloves including neoprene-coated, butyl rubber, and nitrile rubber, chemical resistant aprons, hat boots and a pesticide respirator jointly approved by the NIOSH and the Mine Safety and Health Administration, MSHA - formally the Mining Enforcement and Safety Administration. If totally enclosed cab tractors with positive pressure filtration systems or enclosed cockpit aircraft are used, long sleeve shirt, long pants, socks, and shoes may be the only clothing items necessary for the applicator. However, gloves must be available in the cab or cockpit for use upon exiting. The cab or cockpit should be equipped with a sealable container for glove storage. When handling the concentrated products, wear a face shield. Wash thoroughly with water after handling and before eating or smoking. Remove contaminated clothing and wash before reuse. Do not enter treated areas for at least 24 hours after treatment. If treated areas must be reentered prior to expiration of the interval, protective clothing equivalent to that worn by the applicator must be worn.

The United States Environmental Protection Agency has determined that triphenyltin hydroxide, the active ingredient of this product, affects fetal development in laboratory animals. Exposure to this product during pregnancy should be avoided.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and wildlife. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift or runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Cover or incorporate spills. Do not contaminate water when disposing of equipment washwaters.

For spill emergency - Call Chemtrec 1-800-424-9300

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with this label. This product may be applied only by certified applicators or persons directly under their supervision.

MIXING

Before adding **BRESTAN®** to the spray tank, partially fill with water. Cut or tear outside package along dotted line. Do not open, break or perforate the inner bag. Remove water soluble inside package and place in partially filled tank while agitating. After mixing thoroughly, add remaining water to spray tank. Continuous agitation within the spray tank is essential.

PRECAUTIONS

Do not add surfactants, spreaders, stickers or buffers. Do not graze dairy or meat animals in treated areas.

RE-ENTRY 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.

Do not enter treated areas without protective clothing for 24 hours after treatment. Because certain states may require more restrictive re-entry 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. (Indicate specific oral warnings which inform workers of areas or fields that may be entered without specific protective clothing, period of time field must be vacated and appropriate actions to take in case of 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: **DANGER:** Area treated with **BRESTAN®** on (date of application). Do not enter treated areas without appropriate protective clothing until sprays have dried. In case of accidental exposure, see Statement of Practical Treatment.

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: Empty bag completely into application equipment. Dispose of empty bag in an approved sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Do **NOT** store near heat or open flame.

Store in locked area away from food, feed or fertilizer. If container is damaged or leaking call (201) 231-2244 (for specific instructions).

**BEFORE USE, READ DIRECTIONS, WARNING AND NOTICE STATEMENTS
CAREFULLY**

GENERAL INFORMATION

DO NOT OPEN UNTIL READY TO USE, DO NOT USE LESS THAN FULL BAG

BRESTAN® can be applied as a ground or aerial spray to control fungal infestations on listed crops. Application rates are for general use. Consult agricultural extension or agricultural experiment station specialists regarding timing recommendations. This product is intended for large acreage use only. Full coverage is necessary for best results. Diluted spray should be directed to all parts of the plant uniformly and gallonage increased according to size of plants. Use the lowest application rates in protective schedules, higher rates later in the season or during high infection periods. Do not apply this product through any type of irrigation system except on potatoes.

GENERAL CHEMIGATION INSTRUCTIONS

Do not apply this product through any type of irrigation system on crops other than potatoes. Apply this product only through one or more of the following types of systems: Sprinkler including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand irrigation system. Do not apply this product through any other type of irrigation system.

Crop injury, lack of effectiveness, or illegal pesticide residues

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in the crop can result from non-uniform distribution of treated water.

For specific information about calibration, contact State Extension Service specialists, equipment manufacturers or other irrigation experts.

Do not connect an irrigation system used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.

A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

Posting of areas to be chemigated is required when (1) any part of a treated area is within 300 feet of sensitive areas, such as residential areas, labor camps, businesses, day care centers, hospitals, in-patient clinics, nursing homes or any public areas, such as schools, parks, playgrounds, or other public facilities not including public roads, or (2) when the chemigated area is open to the public, such as golf courses or retail greenhouses.

Posting must conform to the following requirement. Treated areas shall be posted with signs at all usual points of entry and along likely routes of approach from the listed sensitive areas. When there are no usual points of entry, signs must be posted in the corners of the treated areas and in any location affording maximum visibility to sensitive areas. The printed side of the sign should face away from the treated area towards the sensitive area. The signs shall be printed in English. Signs must be posted prior to application and must remain posted until foliage has dried and soil surface water has disappeared. Signs may remain in place indefinitely as long as they are composed of materials to prevent deterioration and maintain legibility for the duration of the posting period.

The 24 hour re-entry interval also applies to areas treated by chemigation. That treated areas must not be entered for 24 hours after application unless protective clothing equivalent to that worn by the applicator is worn.

All words shall consist of letters at least 2-1/2 inches tall, and all letters and the symbol shall be a color which sharply contrasts with their immediate background. At the top of the sign shall be the words **KEEP OUT**, followed by an octagonal stop sign symbol at least 8 inches in diameter containing the word **STOP**. Below the symbol shall be the words **PESTICIDES IN IRRIGATION WATER**.

SPRINKLER CHEMIGATION

The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Do not apply when wind speed favors drift beyond the area intended for treatment.

Before adding **BRESTAN®** to the spray tank, partially fill with water. Add the desired amount of **BRESTAN®** according to the rates listed elsewhere. After mixing thoroughly, add remaining water to spray tank. Continuous agitation within the spray tank is essential. If used in combination with a wettable powder product, place the wettable powder in partially filled tank first, if a liquid, add **BRESTAN®** to tank first.

PRECAUTIONS

Do not add surfactants, spreaders, stickers, or buffers. Combinations with some pesticides, micro-nutrients, spreaders, stickers, surfactants, or buffering agents can increase phytotoxicity. **Phytotoxicity may be severe.** Emulsifiable concentrate insecticides can be especially injurious in combination. We do not recommend mixture with the above unless testing or prior experience has shown the mixture to be non-phytotoxic to the crop. Do not graze dairy or meat animals in treated areas.

**GENERAL INSTRUCTIONS FOR
APPLICATIONS OF BRESTAN® FUNGICIDE**

Crop: Sugar Beets

Disease: Cercospora Leafspot

Acres per Pack: 4 - 7

General Directions: Use lower gallonage when plants are small and increase volume with plant size. Use the lower rate for protective sprays and the higher rates later in the season or during high infection periods. Application should begin when leafspot conditions appear or when the disease is in the area and repeated at 10 to 14 day intervals up to a maximum of 3 applications per growing season. Do not treat within 14 days of harvest. Do not graze or feed beet tops to livestock.

Ground Application (closed cabs only):

Apply in at least 15 gallons of water. Full coverage of the foliage is necessary for best results.

Aerial Application (helicopter or fixed wing aircraft):

Apply in 5-10 gallons of water. Diluted spray should be directed uniformly to all parts of the plant.

Crop: Potatoes

Disease: Early and Late Blight; Suppression of Colorado Potato Beetle

Acres per Pack: 4 - 7*

General Directions: Applications should begin with the appearance of blight weather conditions and continue on a 7 day schedule up to a maximum of 3 applications per growing season. Do not treat within 7 days of harvest. The lower rate of application should be used early in the season and the high rate mid to late season or when blight infection is in the area.

Ground Application (closed cabs only):

Apply in at least 15 gallons of water. Full coverage of the foliage is necessary for best results. A spray pressure of less than 200 pounds is recommended.

Aerial Application: Apply in 3-10 gallons of water. For helicopter application fly high enough so as not to whip the vines. Diluted spray should be directed uniformly to all parts of the plant and the gallonage increased according to the size of the plants.

***Pest Management Systems.** When used in combination with another fungicide registered for disease control on potatoes, a 10 acre/pack rate may be employed.

Crop: Pecans

Disease: Scab; Brown Leafspot; Downy Spot; Powdery Mildew; Liver Spot; Sooty Mold & Leaf Blotch

Acres per Pack: 2.5 - 4

General Directions: Application should begin at pre-pollination stages when the young leaves are unfolding, and a second application made when the small nuts are forming. Apply a maximum of 10 treatments during a single growing season at 2-4 week intervals as needed to maintain control. Use the lower rate for the first two applications or until the disease becomes severe, or during dry weather. Use the higher rate during wet weather or curing severe scab, powdery mildew or other disease infections. Do not apply after shucks have started to open.

Aerial Application: Apply in a minimum of 20 gallons of water.

Ground Application (closed cabs only):

Apply sufficient water to provide for full coverage. Diluted spray should be directed to all parts of the tree.

PRECAUTIONS:

PRESTON[®] may be applied to pecans in combination with wettable powder insecticides or emulsifiable concentrate formulations. Do not graze dairy or meat animals in treated areas.

IMPORTANT NOTICE: DISCLAIMER

Read "IMPORTANT NOTICE: DISCLAIMER" before buying or using.

If terms are not acceptable, return at once unopened. **HOECHST CELANESE CORPORATION** warrants only that the product conforms to the chemical description on the label and is reasonably fit for the purpose stated on the label when used in accordance with the directions under normal conditions of use.

This warranty does not extend to the use of this product contrary to label instructions or under abnormal conditions, under conditions not reasonably foreseeable to **HOECHST CELANESE CORPORATION**, and user assumes the risk of any such use. **HOECHST CELANESE CORPORATION MAKES**

NO OTHER WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF FITNESS OR A PARTICULAR PURPOSE OR OF MERCHANTABILITY. In no case shall **HOECHST CELANESE CORPORATION** be liable for consequential, special, indirect or incidental damages resulting from the use or handling of this product. The foregoing conditions of sale and warranty can be varied only by an agreement in writing signed by a duly authorized representative of **HOECHST CELANESE CORPORATION.**

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