DEC 2 8 1989

Timothy D. Stoner E.I. duPont deNemours & Company Agricultural Products Barley Mill Plaza, WM5-108 P.O. Box 80038 Wilmington, Delaware 19980-0038



Dear Mr. Stoner:

Amended Labeling - Deletion of Uses for Mancozeb Subject:

Manzate 200

EPA Reg. No. 352-341

Manzate 200 Flowable Manzate 200 DF

EPA Reg. No. 352-398 EPA Req. No 352-449

Your Submission Dated September 6, 1989

EPA issued a notice, published in the FFDERAL REGISTER of December 4, 1989 (54 FR 50020), which announced the receipt of requests from registrants of certain technical and end-use EBDC pesticide products to amend their registrations to delete certain uses on food crops or to voluntarily cancel certain products. The ten-day period following publication is now over. The purpose of this letter is to approve and give effect to these requests. The control of the contr

On September 6, 1989, duPont submitted applications for amendments to relete certain crops from its mancozeb product registrations and labels. For the above-referenced products, the Agency agrees to the deletion of the following food crops:

> apples barley

fennel field com quince rye

carrots

melons oats

equash(summer and

celery cotton(foliar)

papayas

winter) tobacco(plant bed

crabapple

pears

and field)

cucumbers pineapples

As a result of similar requests by Pennwalt and Rohm and Haas, the above listed mancozeb products are registered for no more than one or more of the following food uses:

asparagus

grapes

sugar beets

bananas cranberries. onions peanuts sweet corn torators

caprifig*

potatoes

CONCURRENCES

SYMBOL

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The Agency has completed review of the amended labels and finds them acceptable subject to the comments listed below. Stamped copies of the labels are enclosed for your records. Five copies of the finished labeling must be submitted.

- For Manzate 200, EPA Reg. No. 352-341, the second page (containing the ingredients statement) is for the Manzate 200 Flowable, EPA Reg. No. 352-398, formulation. Assure that when these labels are printed the appropriate pages are included for each product.

AFTER JANUARY 1, 1990, ALL TECHNICAL PRODUCT REMAINING WHICH IS NOT IN FORMULATOR'S HANDS AND ALL END-USE PRODUCT REMAINING WHICH IS NOT IN GROWERS' HANDS MUST BE RELABELED TO REFLECT THE USE DELETIONS. ALL NEW PRODUCTION MUST BEAR LABELING REFLECTING ONLY RETAINED USES.

Persons that sell or distribute affected manoxzeb products after January 1, 1990, without the revised labeling (i.e., instead has labeling that does not reflect the deletion of the subject uses) will be in violation of FIFRA and subject to enforcement action.

The uses deleted from these registrations and labeling cannot be reinstated by the registrant until such time as the Agency determines risks associated with these uses are found to be reasonable, informs the registrant of such finding(s), and approves any subsequent amendments to registration.

If you have any questions concerning this letter, please contact Susan Lewis, Product Manager (21), (703)557-1900.

Sincerely.

| Stephane

Anne Lindsay, Director Registration Division

Enclosure - Stamped labels

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Vanzate 200 FLOWABLE

FUNGICIDE



LIQUID SUSPENSION



Manzale 200 FUNGICIDE

ACTIVE INGREDIENT:	
. A coordination product of zinc ion and manganese ethylene bisdithiocarbamate	Ю%
in which the ingredients are	
Manganese" 16%	
Zinc 2%	
Ethylene bisdithiocarbamate ion (C ₄ H ₆ N ₃ S ₄)=	
NERT INGREDIENTS	:0%
This product contains the toxic inert paraformaldehyde	
PA Reg. lo. 352-341 EPA Est. 34302-0	JL-1

Keep out of reach of children. PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION! MAY IRRITATE EYES, NOSE, THROAT AND SKIN. MAY BE HARMFUL IF INHALED OR SWALLOWED.

Avoid breatning dust or spray mist. Avoid contact with skin, eyes and clothing. Keep away from fire or sparks.

During mixing, loading, and application wear a long-sleeve shirt, long pants or coveralls, socks, shoes, chemical resistant gloves, and goggles or face shield. During mixing and loading a chemical resistant apron must also be worn. See Directions For Use.

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

FIRST AID: In case of contact, flush skin or eyes with plenty of water; for eyes, get medical attention.

For medical emergencies involving this product, call toll free 1-800-441-3637.

ENVIRONMENTAL HAZARDS

This pror lict is toxic to fish. Drift and runoff from treated areas may be hall ardous to aquatic organisms in neighboring areas. Do not apply dire tily to water or wetlands (swamps, bogs, marshes, and potholes) except as specified for the labeled use on crar berry. Cover or incorporate spilled treated seed. Do not contaminate water when disposing of equipment washwaters.

STORAGE AND DISPOSAL

STORAGE: Important—Never allow "Manzate" 200 to become wet during storage. This may lead to certain chemical changes which will reduce the effectiveness of "Manzate" 200 as a fungicide and create vapors which may be flammable. Keep container closed when not in use. Store-product in original container only, away from other pesticides, fertilizer, food or feed.

DISPOSAL: Do not contaminate water, food or feed by storage or disposal. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

NOTICE OF WARRANTY

Du Pont warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for purposes stated on such label only when used in accordance with the directions under normal use conditions. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such lactors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Du Pont. In this case shall Du Pont be liable for consequential, special or indirect damages resulting from the use or handling of this product. All such risks shall be assumed by the Buyer, DU PONT MAKES NO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

DIRECTIONS FOR USE

It is a violation of federal faw to use this product in a manner inconsistent with its labeling

"Manzate" 200 Flowable should be used only in accordance with recommendations on this label or in separate hublished Du'Pont recommendations available through local dealers

Du Pont will not be responsible for losses or damages resulting from use of this product in any manner not specifically recommended by Du Pont. User assumes all risks associated with such nonrecommended use

Manzate, 200 Flowable, containing mandozed, is recommended for use as a spray for the control of many important plant diseases.

WORKER SAFLTY RULES

Keep all improtected persons, children illuestock, and pets away from treated area or where there is danger of drift.

Do not rub eyes or mouth with hancs. See First Aid.

PERSONAL PROTECTIVE EQUIPMENT—For Mixers, Loaders, Applicators and Early Reentry Workers

HANDLE THIS PRODUCT ONLY WHEN WEARING THE FOLLOWING PROTECTIVE CLOTHING AND EQUIPMENT, along-sieeve shirt and fong pants or a coverall that covers a liparts of the body except the head, hands, and feet, chemical resistant gloves, shoes, socks, and goggles or a face shield. During mixing and foading, a chemical resistant apronimust also be worn.

During application from a tractor with a completely enclosed cab with positive pressure filtration, or aerially with an enclosed cockpit, a long-sleeve shirt and long pants may be worn in place of the above protective clothing. Chemical resistant gloves must be available in the cab or cockpit and worn while exiting.

IMPORTANT! Before removing gloves, wash them with soap and water. Always wash hands, face, and arms with soap and water before eating smoking or drinking. Always wash hands and arms with soap and water before using the toilet.

After work take off all clothes and sinces. Shower using soap and water. Wear only clean clothes. Do not use contaminated clothing. Wash protective clothing and protective equipment with soap and water after each use. Personal clothing worn during use must be laundered selly from household articles. Clothing and protective equipment heavily contaminated or drenched with mancozeb must be destroyed according to state and local regulations.

HEAVILY CONTAMINATED OR DEENCHED CLOTHING CANNOT BE ADEQUATELY DECONTAMINATED.

During aerial application, human tiangers are prohibited unless in totally enclosed vehicles.

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. 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. Warnings must include the following information. "CAUTION: Area treated with "Manzate" 200 Flowable on (date of application). Do not enter without appropriate protective clothing until sprays have dried. In case of contact, flush skin or eyes with plenty of water; for eyes, get medical attention."

REENTRY STATEMENTS

For Agricultural Uses

After sprays have dried do not enter or allow entry into treated areas until the 24-hour reentry interval has expired unless wearing the personal protective equipment listed on this label

For Turl Uses

Do not enter treated areas without protective clothing until sprays have dired

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Signal companies a

AS A SPRAY (Ground or Aerial Equipment)—Apply "Manzate" 200 Flowable at the rate stown, use sufficient water to provide tholough coverage, usually 20 to 100 gals per acre for ground equipment and 5 to 8 gals per acre for aircraft. Under severe disease conditions, use the higher rate and shorter interval specified for each crop. Add "Manzate" 200 Flowable slowly to water in the spray tank with agitation, or premix thoroughly in separate holding tank for concentrate or aircraft sprayers. Continuous agitation is required to keep the product in suspension

CHEMIGATION: Apply "Manzate" 200 Flowable Fungicide only through sprinkler including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set or hand move irrigation systems only on crops specifically designated in the "Directions For Use" for that particular crop. Do not apply "Manzate" 200 Flowable through any other type of irrigation system or on any other crops

Grop injury, tack of effectiveness, or illegal pesticide residues in the crop can result from nonuniform distribution of treated water

If you have questions about calibration, you shoul, contact State Extension Service Specialists, equipment manufacturers or other experts

Do not connect an irrigation system uncluding greenhouse systems) 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.

Specific Instructions for Public Water Systems:

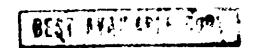
- Public water system means a sistem for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.
- 2. Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone ibid. (flow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tunk prior to pesticide introduction. There shall be discharged into a reservoir tunk prior to pesticide introduction. There shall be discharged into a reservoir tunk prior to pesticide introduction. There shall be discharged into a reservoir tunk prior to pesticide introduction. There shall be discharged into a reservoir tunk prior to pesticide introduction. There shall be discharged into a reservoir tunk prior to pesticide introduction. There shall be discharged into a reservoir tunk prior to pesticide introduction. There shall be discharged into a reservoir tunk prior to pesticide introduction. There shall be discharged into a reservoir tunk prior to pesticide introduction. There shall be discharged into a reservoir tunk prior to pesticide introduction.
- 3 The pesticide injection pipeline must contain a functional, as thill latic, quick-classing check valve to prevent the flow of fluid back inward the injection pump.
- 4. The pesticide injection pipeline must contain a functional inormally closed inclined dispersated valve located on the intakulus delof the injection pump and connected to the system interlock to prevent fluid from being with trawn from the supply tank which the irrigation system is either automatically or manually shut down.
- 5 The system mustic intendicipate interlacking one rolls to automatically smith if the plant in purpose or the warrance of the plant services and waterpurpose of the warrance of the plant when your integral in additional participation.
- 6. Twit mixing of a careforing purple of a capitative to place exerting entropy in a partiage pumple of the video great account factor of fraction of that are compared with booking beyond a property of a pystementer of a content of the pumple.
- 7. Do not apply when wind spreads, and in the eyon dithelarnal inter-public tell armora.

Specific Instructions for Sprinkler Irrigation Systems:

- 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
- 2. 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 desticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on their take 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.
- 4. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- 5 The ringation tine 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.
- 6. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm nump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
- 7. Do not apply when wind speed favors drift beyond the area intended for treatment.
- 8. Good agitation is required in the injection tank.
- 9. In moving systems, apply specified dosage of "Manzate" 200 Flowable as a continuous injection. In nonmoving systems inject "Manzate" 200 Flowable for 15 to 30 minutes at end of cycle. Use the least amount of water possible consistent with uniform coverage.
- 10. Mix the amount of "Manzate" 200 Flowable needed for acreage to be treated into the quantity of water determined during prior calibration. For moving systems inject into the system continuously for one complete revolution of the field. For non-moving systems inject into system for the time established during calibration.
- 11 Stop injection equipment after treatment is completed and continue to operate irrigation equipment until all "Manzate" 200 Flowable is flushed from system.

		APPLICATION		LAST APPLICATION DAYS	
CROPS	DISEASES	QUARTS PER ACRE	TIMING/INTERVAL	TO HARVEST	TO LIVESTOCK. GRAZING/FEEDING
Asparagus Crown (clanting	Rust	17	Begin when rust appears. Apply as long as rust persists— usually 4 applications/10 days.	Apply only on ferns after spears have been harvested	
stocki	CrownRot	0.6 cer 100 gais	Dip Treat for 5 min		
Bananas	Sigatoka	17-34	Begin when leaves first appear 14-21 days		
Caprilig	Endosepsis (Fusarium Fungus), Mold	33 per 100 gals	Cut figs open and dip treat for at least 15 min		
Cereal Grains —Wheat	Helminthosporium Leaf Blight, Septona Leaf Spot	17	Begin at tillering-to- jointing stage/7-10 days Maximum of 3 applications	25	Do not graze livestock in treated areas within 26 days after application
Coniters	Lophadermium Fungi	3.3 per 100 gals*	Nursery plantings and newly transpranted stock/21 days during sprinkler irrigation 28 days rest of year		
Corn —popcorn sweet —hybrid seed production	Helminthosporium Leaf Blight	13	Begin when disease appears/4-7 days	7 S weet 40-fixed popcorn & seed prod	Do not groze or feed sweet corn forage or fodder
Cranberries	Fruit Rot	25-5*	Begin at mid-bicom/ 7-10 days	30	
Grapes	Black Rot: Bunch Rot: Dead Arm Downy Mildew	13 -34	Apply when shoots are 1.1 inches long 3.5 inches long 8.10 nches ICA = do not 30.1 inches long Continue at 10.14 after trult services.		
Onions (Dry Bula)	Blast (Bot lytis Leaf Blight) Downy Mildew, Purple digitch (Blight) Neck Rot	1 -25	Begin when diseases are reported in area 7 days	(Do sort apply 1)	<u> </u>
Seed— (NY only)	Onion Smut con emerging see tenge in muck soils	2.5	Furrow Drench at planting	exponent both	
Peanits	Cercospara Leaf Scot. Alur	(a +-	Begin when disease accesses 10,14 days 1,7 mg/mm/mm/mm/mm/mm/mm/mm/mm/mm/mm/mm/mm/m	† !	

TUSE 3 paratient. Be thate, and annually (x,y) in (x,y) its denoted sate so to and prevent further than the (x,y)



[&]quot;Add spreader sticker

	T	APPLICATION		LAST APPLICATION DAYS	
CROPS	UISEASES	QUARTS PER ACRE	TIMING/INTERVAL	TO HARVEST	TO LIVESTOCK. Grazing/Feed ng
UNUTS	Cercospora Leafspc:	1.3 plus 4 oz Bentate	Begin 75-40 days after planting, or when disease appears/ 10-14 days	10 mailes	***************************************
Peanuts (Tank mix with Bentate	Ascrittyta Web Bilina	1.3 Lius 4 oz Britiate	Begin 35-10 tays after planting or when disease first appears/ 7-14 days	14	Doministration of the model of the state with the state of the state o
	Rust	1 3 plus 4 oz Bentate	8-gin 35-40 days after ptanting or when disease first appears/ 7-10 days		
Potatoes	Early Blight, Late Signt	0817	Begin when plants are 4 6 inches night 7-10 days		
Potato seed pieces	Fusarrum Seed Piece Decay Common Scab	2 1 per 100 gals	Dip treat Plant as soon as possible following treatment	Do not use treated pieces for food or feed purposes	
Sugar Beets	Cercospora Leaf Spot	121.7	Begin when disease first threatens/ 7-10 days	14	Do not feed treated race to livestock
Tomatces	Anthrachose Early Blight Gray Leaf Mold Gray Leaf Spot Stemphyslumi Lato Bright	1325	Begin when seedlings emerge/7 days	5	
	Bacterial Spot	1 3 plus 4 lbs tribasic copper sulphate	Begin when seedings emerge/3-4 days	5	
Turt Grasses	Algae	10 ti oz/ 1000 sq ft	Begin when algae begins to appear/ 7 days		
	Coccer Spot Fusar Lm Blight (F. Roseum), Red Toread Slime Molds	7—10 ff oz/ 1600 sq ft	Begin when grass greens-up in spring/ 7-14 days		
		10—14 fl oz/ 1000 sq ft	Use during favorable disease conditions/ 7 days		
	Dollar Spot (Sclero; high	10—14 II oz/ 1000 sq ft	Begin when grass greens-up in spring/ 7-14 days		
		14 fl oz/ 1009 sq ft	Use during faviliation disease conditions 7 days		Do not grace ties at
	Pink (Fusarium) Snow Mold	10—14 fl oz/ 1000 sg ft	During winter/ 14-42 days		areas or feed 1 22 mgs to livestock
	Leaf Spot (Helminthisporium spp.) Rnizoctonia Brown Patch	5—7 11 oz / 1000 sq ft	Begin when disease appears/7-10 days tees & greens—7-14 days, fairways—14-21 days, home lawns		
		10—14 fl az/ 1060 sq ft	Use during favorable disease conditions/ 3-5 days		
	Pyth um Bright	14 fl oz/ 1600 sq ft	Begin at first sign of disease/5 days or more often during favorable disease conditions.		
	Leuri Stem and Stripe Pust	5—7 f1 oz 1660 sq ft	Begin when disease appears 77-10 days		

*Add spreader-sticker

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SEED		SEED TREATMENT A	7			
TREATMENT	DISEASES	FLUID 07/8U	FLUID DZ/CWT	1		
Barley	Seed Decay, Seedling Blights, Covered Smut, Bunt	22	45	LABEL TREATED		
Coin	Damping Off, Seed Rots, Seedling Blights	25	45	SEED—"Do not use for food, feed or oil		
Cotte s Acid reanted	Damping off, Seedling Blights	~	51	purposes. This seed treated with		
Reports		-	10 1	Manzater 200 Flowable		
Fite	Seed Decay Seeding Blight	34	61	คือกฎ cida		
₫.r*	Seed Decay Seedling Blights Loose Smit	12	67			
Poti to tukins	firearium Seedpiece Decay Seed Borne Common Scab		25 6	1		
a,,,,	Achiva Other Soil and Seed Borne Fungi Causing Sena Rot and Reduced Seedling Vigor	~	34-67 (of dry rice seed) (21-42 ats/fon of seed) Apply before, during or after soaking in water			
Rye	Seed Decay Seedling Blights, Covered Smut Bur!	22	40	Note: The incorporation		
Satto ter	Puccinia Carthami (which causes foot-and-rot disease and foliage rust disease)	_	34	of a dye info the freafing slutry is		
Soramain	Damping Off, Seedling Blights	25	51	recommended		
Tomstees	Damping—Off Seedling Blights		135			
Wheat	Seed Decay Seeding Blights Covered Smut Bunt	22	37			

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AG-2605 8028/8129 2 11 88

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Printed in U.S.A.

