

NOV 30 1993

Ms. Barbara Brown
Drexel Chemical Company
P.O. Box 9306
2487 Pennsylvania St.
Memphis, TN 38109-0306

Dear Ms. Brown:

Subject: Drexel Ziram 76
EPA Registration No. 19713-68
Application Dated July 29, 1993, Revised
Precautionary Statements and Resubmission
Dated November 12, 1993

The proposed amendments described in your applications have been reviewed and are acceptable for registration under section 3 of the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) as amended provided that you:

1. Revise the "Environmental Hazards" section of the proposed labeling to reflect the wetlands statement, as described in PR Notice 93-3.
2. Add the statement, "Do not apply through irrigation equipment"; or submit appropriate directions for use with such equipment.
3. Revise the "Limitations" by deleting those that are not germane to this label; i.e., 4, 12 and 16.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA, Section 6(a). Your release for shipment of the product constitutes acceptance of these conditions.

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

Sincerely yours,

Joanne I. Miller
Product Manager (23)
Fungicide-Herbicide Branch
Registration Division (H-7505C)

Enclosure

E. Wilson: Diskette #ABC4:11-29-93

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ACCEPTED
with COMMENTS
in EPA Letter Dated:

NOV 30 1993

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

19713-68

DREXEL

ZIRAM 76

A Wettable Fungicide

Active Ingredient:

Ziram (Zinc dimethyldithiocarbamate) 76%
(Total Zinc as metallic - 16.2%)

Inert Ingredients 24%

TOTAL 100%

Keep Out Of Reach Of Children

**DANGER
PELIGRO**

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

See Side Panel For Additional Precautionary Statements

EPA Reg. No. 19713-68
EPA Est. No. 19713-MS-1

NET CONTENTS: 5 LBS.

Manufactured By:
Drexel Chemical Company
P O Box 9306, Memphis, Tenn 38109-0306

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PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

DANGER CORROSIVE. Causes irreversible eye damage. May be fatal if swallowed or inhaled. Do not breathe dust or spray mist. Do not get in eyes or on clothing. Wear goggles or face shield. Wear a mask or pesticide respirator jointly approved by the Mine Safety and Health Administration and the National Institute for Occupational Safety and Health. Wash thoroughly with soap and water after handling and before eating, drinking or using tobacco. Remove contaminated clothing and wash contaminated clothing before reuse.

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.

STATEMENT OF PRACTICAL TREATMENT

IF IN EYES: Hold eyelids open and flush with a steady gentle stream of water for 15 minutes. Get medical attention.

IF SWALLOWED: Drink promptly a large quantity of milk, egg white, gelatin solution, or if these are not available, large quantities of water. Avoid alcohol. Get medical attention. Do not induce vomiting.

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

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

ENVIRONMENTAL HAZARDS

This product is toxic to fish and wildlife. Birds and other wildlife in treated areas may be killed. Do not apply directly to water. Do not contaminate water when disposing of equipment washwater. Do not apply when weather conditions favor drift from areas treated. Illegal residues or other undesirable results may occur.

CHEMICAL AND PHYSICAL HAZARDS

Keep away from fire and sparks.

FARMWORKER SAFETY 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 until sprays have dried. 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 not be entered without specific protective clothing, period of time field must be vacated and appropriate actions to take in case of accidental exposure). 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 Ziram on (date of application). Do not enter without appropriate protective clothing (such as goggles or face shield, long pants, long-sleeved shirt, hat, rubber gloves and boots) until sprays have dried. In case of accidental exposure, treat as follows: If on skin, remove contaminated clothes and wash with soap and water. Flush eyes with water for 15 minutes and get medical attention. If swallowed, call a physician. Drink 1 or 2 glasses of water and induce vomiting.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.
DO NOT APPLY THIS PRODUCT THROUGH ANY TYPE OF IRRIGATION SYSTEM.

GENERAL INFORMATION

Where there is a range indicated for the dosage rate use the higher rates when infestations are severe and lower rates when they are mild. The directions for use of this material are general. For specific uses under local conditions, it is suggested that helpful information may be obtained from local, State or Federal Agricultural Agencies who have experience with this type of material.

MIXING INSTRUCTIONS

Fill the spray tank 2/3 full of water. with agitator running, slowly sift in the required amount of material. Finish filling with water and continue agitation while spraying. Do not allow spray solution to stand without agitation or over an extended period of time.

FRUIT & NUT CROP	DISEASE	LBS PER 100 GAL	LBS PER ACRE	DIRECTIONS	LIMITATIONS
ALMONDS	Shot Hole (fungus)	1 1/2-2 plus 4 oz of * Spreader Sticker	8-12	Apply at popcorn, full bloom, petal fall and 5 weeks later.	1, 2
	Brown Rot, Blossom and Twig Blight	1 1/2-2	8-12	Apply at popcorn and full bloom.	
	Leaf Blight, Scab	1 1/2-2	8-12	Apply at petal fall and 5 weeks later.	
APRICOTS	Brown Rot	1 1/2	8-10	Apply in pre-bloom, blossom and petal fall stages and in early cover sprays	3
	Shot Hole (Fungus)	1 1/2 plus 4 oz of Spreader Sticker	8-10	Apply in prebloom, early bloom and full bloom. Under or when weather is extremely wet, make additional applications as often as every 5 days until full bloom.	
	Shot Hole (Fungus)	1 1/2-3	8-10	For post harvest application in the fall before heavy rains.	
NECTARINES, PEACHES	Peach Leaf Curl Shot Hole (Fungus)	1 1/2-3	8-10	Apply at dormant and popcorn stages. For West Coast use on Peaches for leaf curl, apply just before fall rains or in Nov. and repeat in 3 months while trees are still dormant and again in popcorn stages.	5.6
	Brown Rot	1 1/2-2	8-10	Apply at pink bud, 25% to 75% of full bloom, petal fall and cover stages.	
THE FOLLOWING NOT FOR USE IN CALIFORNIA					
APPLES	Apple Scab (Pacific NW only)	1-1 1/2	7 1/2-10	Apply at prebloom, calyx and cover sprays In Washington, apply in first cover spray and in early September on Delicious varieties and late September on Winesaps as a protectant spray only.	7.8
	Bull's Eye Rot (Pacific NW only)	1-1 1/2	7 1/2-10	Apply in first cover spray and in a preharvest spray before fall rains begin. Repeat as necessary especially if excessive rainfall occurs.	
BLACKBERRIES	Evergreen Canker (Pacific NW only)	1 1/2-3	5	Apply once between mid-June and early July.	9
BLUEBERRIES	Mummyberry	3		Apply at loose bud scale stage, repeat 7 days later	10
	Botrytis Blossom Blight	3		Apply just before bloom, at full bloom and 2 to 3 weeks later.	
CHERRIES	Brown Rot	1 1/2		Apply at popcorn, full bloom, petal fall and as necessary in cover applications.	1
	Leaf Spot	1 1/2		Apply at petal fall, shuck fall, and about 2 weeks after shuck fall.	
GRAPES	Black Rot, Powdery Mildew	1/5 lb per 12 gals.		Apply before buds swell. Repeat after blossoming but before fruit forms.	13
PEARS	Pear Scab (Pacific NW only)	1-1 1/2	7 1/2-10	Apply prebloom, calyx and cover stages	7.8
	Bull's Eye Rot	1-1 1/2	7 1/2-10	Apply preharvest prior to fall rains.	

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(Pacific NW only)

Repeat if necessary. Especially if excessive rainfall occurs.

FRUIT & NUT CROP	DISEASE	LBS PER 100 GAL	LBS PER ACRE	DIRECTIONS	LIMITATIONS
PECANS	Scab	2		Begin applications when leaves are 1/4 to 1/2 inch long. Repeat after pollination is complete and up to 5 cover sprays at 3 to 4 week intervals through August.	14
STRAW-BERRIES	Botrytis	1 1/2-2		Apply at early blossom stage. Repeat 2 to 4 times at 5 to 10 day intervals.	15
	Leaf Spot	1 1/2-2		Apply when blossom buds first appear. Repeat when first blooms open.	

VEGETABLE CROPS

CELERY	Early and Late Blight	1-2		Apply before disease is expected to appear or at first sign of infection beginning in the plant bed and continuing in the field at 5 to 10 day intervals.	17
CUCURBITS (CANTELOUPE, CUCUMBERS, MELONS, PUMPKINS) necessary.	Alternaria Blight, Anthracnose, Angular Leaf Spot, Bacterial Wilt, Downy Mildew, Scab	1-2		Apply before disease is expected to appear or at first sign of infection beginning when plants are small. Repeat at 7 to 10 day intervals as necessary.	18
	TOMATOES	Anthracnose, Early Blight, Septoria Leaf Spot	1 1/2-2		Begin applications when plants are 2 to 6 inches high or later at first sign of infection. Repeat at 7 to 10 day intervals as necessary.
	Botrytis Gray Mold (Green House)	1 1/2-2		Begin applications before disease is expected to appear or at first sign of infection. Repeat at 3 to 10 day intervals as necessary.	

ORNAMENTAL CROPS

ASTERS	Rust	1 lb per 12 gal.		Begin application in early season and continue at 7 day intervals until blossoms form.	
CARNATIONS, MARIGOLDS, MORNING-GLORY, & SNAPDRAGONS	Rust	1 2/3		Apply at 7 to 10 day intervals as needed throughout growing season.	
CARNATIONS, CHRYSANTHEMUMS, DAHLIAS, GALDIOLUS, SNAPDRAGONS	Leaf Spot	1 2/3		Apply at 7 to 10 day intervals as needed throughout growing season.	
AZALEAS, CAMELLIAS	Petal Blight	1 1/2-2		Begin application at first bloom. Repeat at 7 to 10 day intervals through bloom. Apply as a drench to mulch and litter beneath and around bushes.	
DAHLIAS, DELPHINIUM, GOLDEN GLOW, HOLLYHOCKS, PHILOX	Powdery Mildew	1 2/3		Apply at 7 day intervals throughout growing season.	

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ROSES Black Spot, Powdery Mildew 1 2/3 Begin application when leaves unfold. Repeat at 7 to 10 day intervals throughout season.

ORNAMENTAL CROP	DISEASE	LBS PER 100 GAL	LBS PER ACRE	DIRECTIONS	LIMITATIONS
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PINE SEEDLINGS	Fusiform Rust	2		Begin application at time of emergence. Repeat at 3 to 5 day intervals to mid June. *Spreader sticker used must be cleared for use on growing crops.	
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LIMITATIONS

1. 8.0 Lbs/A - Do not apply later than 5 weeks after petal fall or
2. 16.0 Lbs/A - Do not apply later than petal fall
3. 10.0 Lbs/A - Do not apply after early cover period
4. 15.0 Lbs/A - Post harvest application
5. 14.5 Lbs/A - Last application at petal fall or
6. 10.0 Lbs/A - Remove excess residues by wiping or brushing
7. 11.5 Lbs/A - No time limitation. Do not use under adverse drying conditions. Long extended dry periods may cause marking on Golden Delicious apple varieties where product collected in one spot.
8. 15.5 Lbs/A - Do not apply within 7 days of harvest. Use only with high volume sprayers. Concentrate sprayers have greater chance of marking fruit on the outside tree edges.
9. 5.0 Lbs/A - Do not apply later than early July.
10. 7.5 Lbs/A - Do not apply later than 3 weeks after full bloom.
11. 5.0 Lbs.A - Do not apply within 7 days of harvest.
12. 15.0 Lbs/A - Do not apply later than 4 weeks after mid-bloom.
13. 4.0 Lbs/A - Do not apply after fruit begins to form.
14. 19.0 Lbs.A - Do not apply later than August
15. 5.0 Lbs.A - Remove residues by washing if application is made 7 days of harvest.
16. 5.0 Lbs.A - Do not apply to snap beans within 4 days of picking.
17. 4.0 Lbs.A - Remove excess residues by stripping, trimming or washing.

18. 5.0 pounds per acre

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18
5.0
pounds
per
acre

STORAGE AND DISPOSAL

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

STORAGE INSTRUCTIONS

Storage should be under lock and key and secure from access by unauthorized persons and children. Storage should be in a cool dry area away from any heat or ignition source. Do not allow storage in a damp or humid area. Never allow this product to become wet during storage. This may lead to certain chemical changes that could reduce its effectiveness as a fungicide and create vapors that may be inflammable. Do not stack over 2 pallets high. Move bags carefully so as not to tear or puncture. Do not move from one area to another unless they are securely sealed to prevent dust from escaping. Keep container tightly sealed when not in use. Keep away from any puncture source. Avoid storage near water supplies, food, feed and fertilizer to avoid contamination. Avoid contamination with acids and alkalies. Store in original containers only. If the contents are leaking or material is spilled follow these steps while wearing protective equipment:

1. Collect and place in suitable containers for disposal.
2. Wash area with water and soap to remove remaining pesticide.
3. Follow washing with clear water rinse.
4. Do not allow run off to enter sewer or contaminate water supplies.
5. Dispose of waste as indicated below:

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

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.

WARRANTY - CONDITION OF SALE

OUR RECOMMENDATIONS FOR USE of this product are based upon tests believed reliable. Follow directions carefully.

Timing and method of application, weather and crop conditions, mixtures with other chemicals not specifically recommended, and other influencing factors in the use of this product are beyond the control of the Seller. Buyer assumes all risks of use, storage and handling of this material not in strict accordance with directions given herewith.

In no case shall Drexel or the Seller be liable for consequential, special or indirect damages resulting from the use or handling of this product when such use and/or handling is not in strict accordance with directions given herewith. The foregoing is a condition of sale by Drexel Chemical Company and is accepted as such by the Buyer.

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