

Reg # 19713 - 93

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

APR 20 1994

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Barbara Brown
DREXEL CHEMICAL COMPANY
BOX 9306
MEMPHIS, TN 38109

Subject: Label Amendment Submission of 03/11/94 in Response to PR Notice 93-7
EPA Reg. No. 19713-93
DREXEL ZIRAM 4L

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is accepted subject to the comments reflected on the enclosed sheet. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

WHAT THIS ACCEPTANCE MEANS:

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the Worker Protection Standard (WPS) labeling requirements of 40 CFR part 156, subpart K, described in PR Notices 93-7 and 93-11. Any other labeling changes submitted in connection with this amendment application but not directly related to compliance with the WPS have not been reviewed or accepted by the Agency. If you wish to make such changes, you must submit a separate amendment application proposing them. If your product is currently suspended, the acceptance of this labeling amendment does not affect the suspension in any way.

WHAT YOU NEED TO DO NEXT:

By the next label printing make all the specified changes to your labeling. Send to EPA one (1) copy of the final printed labeling:

- BEFORE selling or distributing any product bearing the final printed labeling
- AND
- WITHIN one year from date of this acceptance.

BEST AVAILABLE COPY



Recycled/Recyclable
Printed with Soy/Canola Ink on paper that
contains at least 50% recycled fiber

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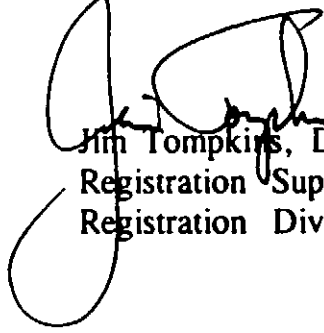
Submit the final printed labeling via the U.S. Postal Service to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs (7505C)
U.S. Environmental Protection Agency
401 M Street, SW
Washington, D.C. 20460-0001

Hand or courier deliveries of final printed labeling may be made to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs
Room 266A, Crystal Mall 2
1921 Jefferson Davis Highway
Arlington, VA 22202

Sincerely,



Jim Tompkins, Deputy Chief
Registration Support Branch
Registration Division (7505W)

Attachment

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✓

DREXEL

ZIRAM 4L

A Flowable Fungicide

ACTIVE INGREDIENT:

Ziram (Zinc dimethyldithiocarbamate) 41.5%
(Zinc expressed as metallic 8.5%)

INERT INGREDIENTS: 58.5%

TOTAL: 100.0%

Contains 4 lbs. Ziram Per Gallon

One gallon of Ziram 4L is equivalent to 5 1/3 lbs. of Ziram 76W

KEEP OUT OF REACH OF CHILDREN

DANGER/PELIGRO

PRECAUCION-AL-USUARIO--Si-usted-no-lee-ingles,-no-use-este-produto
hasta-que-le-etiqueta-haya-sido-explicado-ampiamente-

Si usted no entiende la etiqueta, busque a alguien para que se la
explique a usted en detalle. (If you do not understand the label, find
someone to explain it to you in detail).

EPA REG. NO. 19713-93
EPA EST. NO. 19713-MS-1
Net Contents 2 1/2 Gallons

Manufactured by:
Drexel Chemical Company
P.O. Box 9306
Memphis, TN 38190-0306

WPS DELETIONS/REVISIONS

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Call a physician or Poison Control Center. Drink 1 or
2 glasses of water and induce vomiting by touching back of throat
with finger. Do not induce vomiting or give anything by mouth to an
unconscious person.

IF SPLASHED IN EYES: Immediately flush eyes with plenty of water for
at least 15 minutes and get medical attention.

IF SPILLED ON SKIN: ~~Immediately remove contaminated clothing,~~
~~INCLUDING SHOES,~~ and wash skin with soap and plenty of water. If
irritation develops, send for a physician.

ACCEPTED
with COMMENTS
In EPA Letter Dated
APR 20 1994

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
19713-93

PRECAUTIONARY STATEMENT

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER: Corrosive. Causes irreversible eye damage. Harmful if swallowed. May be fatal if inhaled. Do not breathe dust or spray mist. Do not get in eyes or on clothing. -Wear-goggles-or-face-shield--Wash thoroughly-with-soap-and-water-after-handling--Remove-contaminated clothing-and-wash-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-

PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers must wear: Long-sleeved shirt and long pants, Waterproof gloves, Chemical-resistant footwear plus socks, Protective eyewear, and Chemical-resistant headgear for overhead exposure. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry. When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

USER SAFETY RECOMMENDATIONS

User should: Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide get inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This product is toxic to fish and wildlife. Birds and other wildlife in treated areas may be killed. For terrestrial uses, do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. 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.

Do not apply this product in a manner that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry intervals. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard. Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 48 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is: Coveralls, Waterproof gloves, Chemical-resistant footwear plus socks, Protective eyewear, and Chemical-resistant headgear for overhead exposure

IMPORTANT:

These 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.

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GENERAL INFORMATION:

ZIRAM 4L is a liquid formulation effective against many fungus diseases. It has excellent adhesive properties and is safe on a wide range of plants. It is compatible with parathion, malathion and many commonly used pesticides.

MIXING INSTRUCTIONS:

Fill the spray tank 2/3 full of water; with agitator running, slowly add 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.

Where a range of dosages is indicated use the lower rate for mild infestations and the higher rate for heavy infestations. For use on small areas, 3 teaspoonfuls per gallon of water is equivalent to 3 pints per 100 gallons of water.

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FRUIT AND NUT CROPS

FRUIT & NUT CROP	DISEASE	PTS PER 100 GAL	PTS PER ACRE	DIRECTIONS	LIMITATIONS
ALMONDS	Shot Hole (Fungus)	2 - 4	12 - 18	Apply at popcorn, full bloom, petal fall and 5 weeks later.	1, 2
	Brown Rot, Blossom and Twig Blight	2 - 4	12 - 18	Apply at popcorn and full bloom.	
	Leaf Blight, Scab	2 - 4	12 - 18	Apply at petal fall and 5 weeks later.	
APRICOTS	Brown Rot	3	12 - 15	Apply in prebloom, blossom and petal fall stages and in early cover sprays.	3
	Shot Hole (Fungus)	3	12 - 15	Apply at prebloom, early bloom and full bloom. Under severe disease conditions, or when weather is extremely wet, make additional applications as often as every 5 days until full bloom.	
	Shot Hole (Fungus)	3 - 4	12 - 15	For postharvest application in the fall before heavy rains.	
NECTARINES, PEACHES	Peach Leaf Curl, Shot Hole (Fungus)	2 - 4	12 - 15	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 stage.	5, 6
	Brown Rot	2 - 4	12 - 15	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)	2	11 - 15	Apply at prebloom, calyx and cover sprays. In WA, apply in first cover spray and in early Sept. on Delicious variety and late Sept. on Winesaps as a protectant spray only.	7, 8
	Bull's Eye Rot (Pacific NW only)	2	11 - 15	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)	2 - 4	7-1/2	Apply once between mid-June and early July.	9
BLUEBERRIES	Mummyberry	4		Apply at loose bud scale stage, repeat 7 days later.	10
	Botrytis Blossom Blight	4		Apply just before bloom, at full bloom and 2 to 3 weeks later.	
CHERRIES	Brown Rot	2		Apply at popcorn, full bloom, petal fall and as necessary in cover applications.	11
	Leaf Spot	2		Apply at petal fall, shuck fall, and about 2 weeks after shuck fall.	
CRANBERRIES	Fruit Rot	4		Apply three times at 2 week intervals beginning at mid bloom.	12
GRAPES	Black Rot, Powdery Mildew	1/3 pt. per 12 gal.		Apply before buds swell. Repeat after blossoming but before fruit forms.	13
PEARS	Pear Scab (Pacific NW only)	2	11 - 15	Apply in prebloom, calyx and cover stages.	7, 8
	Bull's Eye Rot (Pacific NW only)	2	11 - 15	Apply preharvest prior to fall rains. Repeat if necessary. Especially if excessive rainfall occurs.	
PECANS	Scab	3		Begin applications when leaves are 1/4 to 1/2 in. long. Repeat after pollination is complete and up to 5 cover sprays at 3 to 4 week intervals through August.	14
STRAWBERRIES	Botrytis Gray Mold	2 - 3		Apply at early blossom stage. Repeat 2 to 4 times at 5 to 10 day intervals.	15
	Leaf Spot	2 - 3		Apply when blossom buds first appear. Repeat when first blooms open.	

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VEGETABLE CROPS - NOT FOR USE IN CALIFORNIA

VEGETABLE CROP	DISEASE	PTS PER 100 GAL	PTS PER ACRE	DIRECTIONS	LIMITATIONS
BEANS	Rust, Anthracnose	2		Apply when disease first appears and repeat at 4 to 7 day intervals as long as the disease is a threat.	16
CELERY	Early and Late blight	2 - 3		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 (Cantaloupe, cucumbers, melons, pumpkins & squash)	Alternaria Leaf Blight, Anthracnose, Angular Leaf Spot, Bacterial Wilt, Downy Mildew, Scab	2 - 3		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	2		Begin applications when plants are 2 to 6 in. high or later at first sign of infection. Repeat at 7 to 10 day intervals as necessary.	18
	Botrytis Gray Mold (Green House)	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

ORNAMENTAL CROP	DISEASE	PTS PER 100 GAL	PTS PER ACRE	DIRECTIONS	LIMITATIONS
ASTERS	Rust	2 pts. per 12 gals.		Begin application in early season and continue at 7 day intervals until blossoms form.	
CARNATIONS, MARGOLDS, MORNING GLORY & SNAP DRAGON	Rust	2%		Apply at 7 to 10 day intervals as needed throughout growing season.	
CARNATIONS, CHRYSANTHEMUMS, DAHLIAS, GLADIOLUS & SNAPDRAGON	Leaf Spot	2%		Apply at 7 to 10 day intervals as needed throughout growing season.	
AZALEAS, CAMELIAS	Petal Blight	3 - 4		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, HOLLY-HOCKS & PHLOX	Powdery Mildew	2%		Apply at 7 day intervals throughout growing season.	
ROSES	Black Spot, Powdery Mildew	2%		Begin application when leaves unfold. Repeat at 7 to 10 day intervals throughout season.	
PINE SEEDLING IN NURSERY BEDS	Fusiform Rust	4		Begin application at time of emergence. Repeat at 3 to 5 day intervals to mid-June.	

LIMITATIONS

1. 12 pints per acre - Do not apply later than 5 weeks after petal fall or,
2. 25 pints per acre - Do not apply later than petal fall.
3. 20 pints per acre - Do not apply after early cover period.
4. 22 pints per acre - Post harvest application.
5. 22 pints per acre - Last application at petal fall or,
6. 15 pints per acre - Remove excess residues by wiping or brushing.
7. 18 pints per acre - No time limitation. Do not use under adverse drying conditions. Long extended dry periods may cause marking on Golden Delicious apple varieties where product collects in one spot.
8. 24 pints per acre - Do not apply within 7 days of harvest. Use only with high volume sprayers. Concentrate sprayers have a greater chance of marking fruit on the outside tree edges.
9. 7 pints per acre - Do not apply later than early July.
10. 11 pints per acre - Do not apply later than 3 weeks after full bloom.
11. 8 pints per acre - Do not apply within 7 days of harvest.
12. 23 pints per acre - Do not apply later than 4 weeks after mid-bloom.
13. 6 pints per acre - Do not apply after fruit begins to form.
14. 30 pints per acre - Do not apply later than August.
15. 9 pints per acre - Remove residues by washing if application is made within 7 days of harvest.
16. 7 pints per acre - Do not apply to snap beans within 4 days of picking.
17. 6 pints per acre - Remove excess residues by stripping, trimming and washing.
18. 7 pints per acre.

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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 stack over 2 pallets high. Move containers by handles or in cases. Do not move containers from one area to another unless they are securely sealed. 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. Store in original containers only. If the contents are leaking or material is spilled follow these steps while wearing protective clothing:

1. Contain spill, absorb with material such as saw dust, clay granules or dirt.
2. Collect and place in suitable containers for disposal.
3. Wash area with water and soap to remove remaining pesticide.
4. Follow washing with clean water rinse.
5. Do not allow run off to enter sewer or contaminate water supplies.
6. 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.

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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