

MAR 28 1997

Mr. J. R. Fisher
 Oregon-California Chemicals, Inc.
 29454 Meadowview Road
 Junction City, Oregon 97448

Dear Mr. Fisher:

Subject: OR-CAL ZIRAM 400
 EPA Registration No. 52251-19
 Application and Letter Dated March 25, 1997, Request
 To Amend Registration by Revising Precautionary
 Statements, Statements of Practical Treatment and
 Personal Protective Equipment Requirements For
 Reentry of Treated Areas Under the EPA Worker
 Protection Standard

the proposed subject labeling has been reviewed and found
 acceptable under the Federal Insecticide, Fungicide and
 Rodenticide Act as amended, provided that you:

"Submit one (1) copy of the final printed labeling,
 bearing the subject amendments, before you release
 the product for shipment under this accepted labeling.

If this condition is not complied with, the registration
 will be subject to cancellation in accordance with FIFRA,
 section 6(e). Your release for shipment of the product
 constitutes acceptance of this condition.

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

Sincerely yours,

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

enclosure# (1)

BEST AVAILABLE COPY

CONCURRENCES

SYMBOL	Wilson:Diskette #Thiram : 01-27-97						
SURNAME							
DATE							

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OR-CAL ZIRAM 400

ACTIVE INGREDIENT:

Ziram (Zinc Dimethyldithiocarbamate).....	40%
INERT INGREDIENTS.....	60%
TOTAL.....	100%

8.5% Zinc as metallic.

This product contains 4 pounds Ziram per gallon.

EPA Registration No. 52251-19

EPA Establishment No. 52251-OR-005

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KEEP OUT OF REACH OF CHILDREN

DANGER PELIGRO

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.)

STATEMENT OF PRACTICAL TREATMENT

If Swallowed: Call a physician or Poison Control Center. Do not induce vomiting. Drink promptly a large quantity of milk, egg whites, gelatin solution, or if these are not available, drink large quantities of water. Avoid alcohol.

If on Skin: Wash with plenty of soap and water. Get medical attention.

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

If In Eyes: Hold eyelids open and flush with steady, gentle stream of water for 15 minutes. Get medical attention.

Note to Physician: Probable mucosal damage may contraindicate gastric lavage. Treat symptomatically

NET CONTENTS: ONE GALLON

OREGON-CALIFORNIA CHEMICALS, INC.
29454 MEADOWVIEW ROAD
JUNCTION CITY, OR 97448

PHONE: (541) 689-4413
FAX: (541) 689-5026

ACCEPTED
with COMMENTS
In EPA Letter Dated
MAR 28 1997

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
52251-19

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER

Corrosive. Causes irreversible eye damage. Harmful if swallowed or absorbed through skin or inhaled. Do not get in eyes or on clothing. Avoid contact with skin. Avoid breathing dust. Wear long-sleeved shirt and long pants, socks and shoes, goggles or face shield and waterproof gloves. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

Personal Protective Equipment

Applicators and other handlers must wear:

- Coveralls over long-sleeved shirt and long pants
- Waterproof gloves
- Chemical-resistant footwear plus socks
- Protective eyewear
- Chemical-resistant headgear for overhead exposure
- Chemical-resistant apron when cleaning equipment, mixing, or loading
- Dust/mist filtering respirator (MSHA/NIOSH approval number prefix (TC-21C).

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.

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets 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 pesticide is toxic to fish. Do not apply directly to water or to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff from treated areas may be hazardous to fish in neighboring areas. Do not contaminate water when disposing of equipment wash waters. Do not apply when weather conditions favor drift from areas treated. Apply this product only as specified on this label.

PHYSICAL AND CHEMICAL HAZARDS

DO NOT USE OR STORE NEAR HEAT OR OPEN FLAME.

STORAGE AND DISPOSAL

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

Storage:

Store in a cool, dry place. Keep container closed when not in use. Do not store near heat or open flame.

Pesticide Disposal:

Pesticide wastes are toxic. 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:

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.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its label.

Do not apply this product in a way 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.

Chemirrigation: Do not apply this product through any type of irrigation system.

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 interval. 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.

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, wear:

- Coveralls over long-sleeved shirt and long pants
- Socks and chemical resistant footwear
- Wear goggles or face shield
- and waterproof gloves

Where a dosage range is recommended, use the higher dosage when the weather is conducive to rapid infectious growth (warm, humid weather) and when the plants are in full foliage.

Either use the entire container at one time or mix thoroughly before use.

Consult state and county Agricultural Extension Services authorities for additional information, as timing and number of applications needed will vary with local conditions.

Do not combine with emulsifiable liquids unless previous experience has proven that the combination is physically compatible and safe to plants.

Apply in sufficient volume of water to provide good coverage with available equipment in either dilute sprays or in concentrate ground or aerial sprays. Further suggestions on aerial application are available on request.

All the recommendations below are in pints of Ziram 400 per 100 gallons of water based on 400 gallons of spray per acre in dilute application except as noted.

FOOD CROP USES

- **ALMONDS:**

Brown rot, Twig and blossom blights, Shot hole, Scab, Leaf blights.

Apply 1 gallon of Ziram 400 per acre using ground equipment. Apply at popcorn, bloom, petal fall stages and up to 5 weeks after petal fall. Do not apply within 5 weeks of harvest.

- **APPLES AND PEARS: (not for use on Pears in California)**

Scab

Use 2-1/3 pints in pre-bloom, calyx and early cover sprays. Use 1-1/2 pints in late cover sprays.

Anthraxnose, Bull's eye rot, Perennial canker, and Storage rot.

Use 2-1/3 pints for first codling moth spray and again just before fall rains. If rainfall is heavy during season then one or more additional applications may be needed.

When applied by air use 1 to 1 1/2 gallons per acre. Do not apply in less than 12 gallons of spray per acre. While Ziram may be applied up to the day of harvest if less than 2-1/4 gallons have been used, for the best control it should have been applied no later than one week before harvest. Up to 3 gallons per acre can be used if not applied within 7 days of harvest.

ZIRAM 400 should not be used on apples or pears where experience has shown the fruit does not tolerate zinc compounds. Consult your local Agricultural Extension Service for information on local conditions, varieties of fruit, and conditions of soil and weather associated with apple and pear culture that would result in lack of zinc tolerance in these fruits.

- **BLACKBERRIES:**

Evergreen blackberry canker.

Use 4-1/2 pints per acre in sufficient water for thorough coverage in one application between mid-June and early July.

- **BLUEBERRIES:**

Mummy berry.

Use 4-1/2 pints per acre in sufficient water for thorough coverage. Apply at loose bud scale stage and 7 days later. Do not apply later than 3 weeks after full bloom.

- **CHERRIES:**

Brown rot.

Use 1-1/3 pints per 100 gallons. Do not apply within 7 days of harvest. Where brown rot is a problem, begin with a blossom spray followed by 3 or more sprays: one at petal fall, one at shuck fall, and another 2 weeks later. Where fruit rot is severe, apply three per harvest; one 20 days before ripening, another 10 days prior to ripening and the last just as the fruit is picked (NOTE: Ziram has a limitation of 7 days prior to harvest; it is suggested that a different product labeled for this use be used as the last spray and/or post harvest dip.)

- **PEACHES:**

Brown rot.

Use 2-1/3 pints. Apply at pink bud, 25% to 75% of full bloom, petal fall and cover stages.

Peach leaf curl and Shot hole (fungus).

Use 2-1/3 pints. Apply in dormant and popcorn stages. On the West Coast apply just before the usual time for the fall rains or in November and again in the popcorn stage.

- **STRAWBERRIES:**

Leaf spot.

Use 2-1/3 to 3 pints. Apply when blossom buds first show and again when earliest blossoms open. Remove residues by washing if application was made within 7 days of harvest.

- **TOMATOES:**

Anthraxnose, Early blight.

Use 2-1/3 to 3 pints per acre in sufficient water for thorough coverage. Make the first application when the fruit in the first clusters is well-formed and repeat at 7 to 10 day intervals. When weather conditions favor disease, more frequent applications may be needed, starting when the plants are set in the fields. In areas where Anthracnose is a serious problem on canning tomatoes, apply 4-1/2 to 6 pints per acre.

Gray mold.

Use 2-1/3 to 3 pints, before danger of infection. Repeat as needed.

- **ORNAMENTAL USES**

Do not use on zinc-sensitive plants or on any ornamental just recently sprayed with any spray containing any form of metallic material. Try and space your nutrient sprays and other sprays containing metallics at least one week apart.

- **ASTER AND GARDENIAS:**

Leaf Spot.

Use 1/3 pint per 100 gallons of water. Start application at first sign of infection and repeat at 7 to 10 day intervals as needed.

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- **AZALEAS AND CAMELLIAS:**

Petal blight.

Use 1/3 pint in 100 gallons of water. Start application at first sign of infections and repeat as needed or apply while buds are opening and repeat at 3 to 5 day intervals during infectious periods.

- **CARNATIONS:**

Alternaria blight, Rust.

Use 1/3 pint in 100 gallons of water. Start application at first sign of infection and repeat at 7 to 10 day intervals as needed.

- **CHIRYSANTHEMUMS:**

Septoria leaf spot.

Use 1/3 pint in 100 gallons of water. Start application at first sign of infection and repeat at 7 to 10 day intervals as needed.

- **ROSES:**

Black spot, Rust.

Use 1/3 pint in 100 gallons of water. Start application at first sign of infection and repeat at 7 to 10 day intervals as needed.

CONDITIONS OF SALE-LIMITED WARRANTY AND LIMITATIONS OF LIABILITY AND REMEDIES

The directions on this label are believed to be reliable and should be followed carefully. Insufficient control of pests and/or injury to the crop to which the product is applied may result from the occurrence of extraordinary or unusual weather conditions, the failure to follow the label directions, or good application practices, all of which are beyond the control of Oregon-California Chemicals, Inc., or seller. In addition, failure to follow label directions may cause injury to crops, animals, man or the environment. Oregon-California Chemicals, Inc. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purpose referred to in the directions for use subject to the factors noted above which are beyond the control of Oregon-California Chemicals, Inc. Oregon-California Chemicals, Inc. makes no other warranties or representations of any kind, express or implied, concerning the product, including no implied warranty of merchantability or fitness for any particular purpose. The exclusive remedy against Oregon-California Chemicals, Inc. for any cause of action relating to the handling or use of this product is a claim of damage and in no event shall damages or any other recovery of any kind against Oregon-California Chemicals, Inc. exceed the price of the product which causes the alleged loss, damage, injury, or other claim. Oregon-California Chemicals, Inc. shall not be liable and any and all claims against Oregon-California Chemicals, Inc. are waived, for special, indirect, incidental, or consequential damages or expense, of any nature, including, but not limited to, loss of profits or income, whether or not based on Oregon-California Chemicals, Inc., negligence, breach of warranty strict liability in tort or any other cause of action. Oregon-California Chemicals, Inc. and the seller offer this product and the buyer and user accept it, subject to the foregoing conditions of sale and limitation of warranty, liability and remedies.

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