

JAN 18 1994

Mr. John E. Skwara  
Agrichemicals Division  
Elf Atochem North America, Inc.  
Three Parkway, Room 619  
Philadelphia, PA 19102

Dear Mr. Skwara:

Subject: Ziram F-4  
EPA Registration No. 4581-230  
Your Letter Dated December 23, 1993, Submission  
of Revised Product Labeling To Reflect Appropriate  
Hazard Warning Statements, in Response to Agency's  
Letter Dated January 14, 1992

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

1. Revise the subject labeling to comply with the Worker Protection Standard (WPS) requirements for this product prior to the deadlines for compliance to PR Notices 93-7 and 93-11. We note that you submitted labeling under these regulations on December 30, 1993. Final printed labeling must be submitted after acceptance by an Agency review of the proposed labeling under the WPS or in accordance with instructions in the review. Under the self-verification option of these PR Notices, you may submit final printed labeling prior to receiving an Agency review.
2. To address the matter of child resistant packaging, you must state on the front panel of the label: "Not for homeowner use" or "For agricultural use only". The labeling must be designed to keep the product out of the homeowner market, otherwise you must address the child resistant packaging requirements for this product.

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3. Submit five (5) printed copies of the final printed label before releasing the product for shipment.

If these conditions are 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 these conditions.

Further actions on this pesticide product registration must conform with the EPA "General Information on applying for Registration of Pesticides in the United States", Second Edition, EPA/737/b-92-001.

Sincerely yours,

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

E.Wilson:Diskette #007:01-18-94

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ACCEPTED  
with COMMENTS  
In EPA Letter Dated

JAN 18 1994

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.  
4581-230

# ZIRAM F-4

**FUNGICIDE**

**ACTIVE INGREDIENT:**

Ziram (Zinc dimethyldithiocarbamate) ..... 39.2%  
(Zinc expressed as metallic....8.4%)

**INERT INGREDIENTS:** ..... 60.8%

**TOTAL:** ..... 100.0%

This product contains 4 pounds Ziram per gallon.  
1 Gallon Ziram F-4 is equivalent to 5 1/2 pounds Ziram 76.

**KEEP OUT OF REACH OF CHILDREN  
PELIGRO DANGER**

**PRECAUCION AL USUARIO:**

Si usted no lee ingles, no use este producto hasta que la etiqueta haya sido explicado ampliamente.

**STATEMENT OF PRACTICAL TREATMENT**

In case of contact with skin, wash with soap and water and get medical attention; for eyes, flush with plenty of water for 15 minutes and get medical attention.

See Back Panel for Precautionary Statements.

EPA Registration No. 4581-230 EPA Establishment No. 4581-TX-1

**Net Contents 5 U.S. Gallons (18.9 Liters)**

**SOLD BY  
ELF ATOCHEM NORTH AMERICA, INC. AGCHEM DIVISION  
PHILADEPHIA, PA 19103-3222**

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**PRECAUTIONARY STATEMENTS  
DANGER PELIGRO  
HAZARDS TO HUMANS (AND DOMESTIC ANIMALS)**

**CORROSIVE. CAUSES IRREVERSIBLE EYE DAMAGE.** Do not get in eyes or on clothing. May be fatal if inhaled. Do not breathe spray mist. Harmful if swallowed or absorbed through skin. Wear goggles, face shield, or safety glasses. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. Wear a mask or pesticide respirator jointly approved by the Mine Safety and Health Administration and the National Institute for Occupational Safety and Health.

**ENVIRONMENTAL HAZARDS**

This product is toxic to fish. Use with care when applying in areas adjacent to any body of water. 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 apply when weather conditions favor drift from target area. Do not contaminate water when disposing of equipment washwaters.

**STORAGE AND DISPOSAL**

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

**Storage Instructions:** Store in the original container. Store in a frost-free room. Store in the shade. Do not store in a manner where cross-contamination with other pesticides, fertilizers, food or feed could occur. If spilled during storage or handling, absorb with sand or other inert material and dispose of absorbent in accordance with the Pesticide Disposal Instructions listed below.

**Pesticide Disposal Instructions:** 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 Instructions:** 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.

**WARRANTY AND DISCLAIMER**

Elf Atochem North America warrants that this material conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the Directions for Use, subject to the risks referred to therein. ELF ATOCHEM MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. IN NO CASE SHALL ELF ATOCHEM OR SELLER BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT INCLUDING, BUT NOT LIMITED TO, LOSS OF PROFITS, BUSINESS REPUTATION, OR CUSTOMERS; LABOR COST; OR OTHER EXPENSES INCURRED IN PLANTING OR HARVESTING.

Elf Atochem and seller offer this product and the buyer and user accept it subject to the foregoing conditions of sale and warranty which may be varied only by agreement in writing signed by a duly authorized representative of Elf Atochem.

Made in U.S.A.

5-C312S-02 D1 (12/93)

Printed in U.S.A.

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### GENERAL INFORMATION

ZIRAM F-4 is a liquid paste 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.

### 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.

For dilute application, use ZIRAM F-4 at recommended rate per 100 gallons of spray unless otherwise stated. Three teaspoonfuls per gallon of water is equivalent to 3 pints per 100 gallons of water.

For concentrate applications, by air, use ZIRAM F-4 in 20 to 30 gallons of spray per acre; by ground, use in a minimum of 40 gallons of spray per acre.

Use the high rate under severe disease pressure or when conditions promote rapid disease development.

### 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 until spray has dried unless protective clothing is worn.

Because certain states may require more restrictive reentry 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 an area about to be treated with this product. In case of accidental exposure, workers should wash thoroughly with soap and water and contaminated clothing should be removed and washed before reuse. 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: "WARNING. Area treated with ZIRAM F-4 Fungicide on (date of application). Do not enter without appropriate protective clothing until spray has dried. In case of accidental exposure, workers should wash thoroughly with soap and water and contaminated clothing should be removed and washed before reuse.

6097

**FRUIT AND NUT CROPS**

Crop	Pts/ 100 Gallons	Pts/A	Disease	Directions	Limitations (see footnotes)
Almonds	2-4	12-18	Shot-hole (Fungus)	Apply at popcorn, full-bloom, petal fall, and 5 weeks later.	1, 2
			Brown Rot (Blossom and Twig Blight)	Apply at popcorn and full bloom.	
			Leaf Blight Scab	Apply at petal fall and 5 weeks later.	
Apples	2	11-15	Apple Scab	Apply at pre-bloom, calyx, and cover sprays. In Washington, apply in first cover spray and in early September on Delicious variety and late September on Winesaps as a protectant spray only.	3, 4
			Bull's Eye Rot	Apply in the first cover spray and in a pre-harvest spray before fall rains begin. Repeat as necessary, especially if excessive rainfall occurs.	
Pecans†	3		Scab	Begin applications when leaves are 1/2 to 1/4 inch long. Repeat after pollination is complete and up to 5 cover sprays at 3- to 4-week intervals through August.	5

**ORNAMENTAL CROPS†**

Crop	Pts/ 100 Gallons	Disease	Directions
Asters	2 pts/12 gals	Rust	Begin application in early season and continue at 7-day intervals until blossoms form.
Carnations,* Marigolds, Morning Glory, Snapdragons*	2%	Rust *See below for additional disease control	Apply at 7- to 10-day intervals as needed throughout growing season.
Carnations,* Chrysanthemums, Dahlias,* Gladiolus, Snapdragons*	2%	Leaf Spot *See below for additional disease control	Apply at 7- to 10-day intervals as needed throughout growing season.
Azaleas, Camelias	3-4	Petal Blight	Begin application with 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, Phlox	2%	Powdery Mildew	Apply at 7-day intervals throughout growing season.
Roses	2%	Black Spot Powdery Mildew	Begin application when leaves unfold. Repeat at 7- to 10-day intervals throughout season.
Pine Seedlings (nursery beds)	4	Fusiform Rust	Begin application at time of emergence. Repeat at 3- to 5-day intervals to mid-June.

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**Limitations**

1. 12 pints/acre-Do not apply later than 5 weeks after petal fall or
2. 25 pints/acre-Do not apply later than petal fall
3. 18 pints/acre-No time limitation or
4. 24 pints/acre-Do not apply within 7 days of harvest
5. 30 pints/acre-Do not apply later than August

**† NOT FOR THIS USE IN CALIFORNIA**

45