

MAY 2 1995

Mr. Christopher Davis
Elf Atochem North America, Inc.
Agriculturals Division, 21st Floor
2000 Market Street,
Philadelphia, PA 19103-3222

Dear Mr. Davis:

Subject: Ziram 76 Fungicide
EPA Registration No. 4581-140
Application Dated March 21, 1995, Request To Amend
Registration by Adding Me-Too Use-Patterns for Grapes
and Tomatoes, and Your Resubmission of
Labeling with Letter dated April 25, 1995

The proposed amendments to the labeling of the subject
pesticide product have been reviewed and found acceptable
under the Federal Insecticide, Fungicide and Rodenticide
Act as amended, provided that:

- o Submit one (1) copy of the final printed label before
releasing the product for shipment under the subject
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

E.wilson:Diskette ABC44:05-01-95

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ACCEPTED
with COMMENTS
In EPA Letter Dated

MAY 2 1995

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
4581-140

WPS

ZIRAM 76

Fungicide

ACTIVE INGREDIENT:

Ziram (Zinc dimethyldithiocarbamate) 76%
(Zinc expressed as metallic 16.25%)

INERT INGREDIENTS: 24%

TOTAL 100%

KEEP OUT OF REACH OF CHILDREN

PELIGRO DANGER

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

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

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

IF ON SKIN: Wash with plenty of soap and water. Get medical attention.

EPA Reg. No. 4581-140

EPA Est. No. 33910-HL-01

NET CONTENTS _____

Sold by

ELF ATOCHEM NORTH AMERICA, INC.

AGCHEM DIVISION

2000 Market Street, Philadelphia, PA 19103

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS (AND DOMESTIC ANIMALS)

DANGER

CORROSIVE. CAUSES IRREVERSIBLE EYE DAMAGE. MAY BE FATAL IF INHALED. HARMFUL IF SWALLOWED OR ABSORBED THROUGH SKIN. Do not breathe dust or spray mist. Avoid contact with eyes, skin, or clothing.

PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks
- Protective eyewear
- Dust/mist filtering respirator

-For exposure in enclosed areas, a respirator with either an organic vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G).

-For exposures outdoors, 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 product is toxic to fish. Use care when applying in areas adjacent to any body of water. Do not apply directly to water, 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.

PHYSICAL OR CHEMICAL HAZARD

Keep away from fire and sparks.

GENERAL INFORMATION

ZIRAM 76 is effective against many fungal diseases and is non-toxic to labeled crops. It is compatible with most commonly used pesticides and adjuvants. It may be used with systemic fungicides, such as Triforin, for broad spectrum disease control and can be used in Integrated Pest Management (IPM) programs.

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 in a way that will contact humans or other persons, either directly or through drift. Only protected handlers should be in the area during application. For any requirements specific to a State or Tribe, consult the agency responsible for pesticide regulation. Do not apply this product through any type of irrigation system.

GENERAL USE PRECAUTIONS

For dilute applications, use ZIRAM 76 at the recommended rate per acre.

For aerial applications, use ZIRAM 76 in a minimum of 10 gallons per acre; for concentrate ground applications, use a minimum of 100 gallons of spray per acre.

For both ground and aerial applications, always use sufficient water to provide thorough coverage.

Use the high label rate under severe disease pressure. Severe conditions promote rapid disease development.

Maximum application is for a crop cycle. Crop cycle can be defined as the period from bloom through postharvest.

Do not graze or feed cover crops from treated orchards.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and 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 requirements and exceptions pertaining to the statements on this label. All personal protective equipment (PPE), and restricted-entry interval 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 any surface that has been treated, such as plants, soil, or water, is:

- Coveralls
- Waterproof gloves
- Shoes plus socks
- Protective eyewear

FRUIT AND NUT TREE CROPS

Crop	Pounds ZIRAM 76		Disease(s)	Directions
	Per 100 Gallons	Per Acre		
Almonds		8	Shot-hole Brown Rot (Blossom and Twig Blight) Leaf Blight Scab	Apply at popcorn, full bloom, petal fall or as needed, but no later than 5 weeks after petal fall. Do not apply more than 32 lbs(24.3 lbs. A.I.)/A per crop cycle. (see GENERAL USE PRECAUTIONS section on this page for definition of crop cycle)
Apples	10-20	6-8	Apple Scab Cedar Apple Rust Quince Rust Sooty Blotch Fly Speck Bitter Rot Necrotic Leaf Blotch	Apply from pre-bloom through cover sprays as needed. Under severe disease pressure use the higher rate. Do not apply within 14 days of harvest. Eastern U.S. Do not apply more than 56 lbs(42.6 lbs. A.I.)/A per crop cycle. Western U.S. Do not apply more than 32 lbs(24.3 lbs. A.I.)/A per crop cycle.
		6-8	Bull's Eye Rot (Pacific Northwest only)	Apply in the first cover spray and in pre-harvest spray before fall. Repeat as necessary, especially if excessive rainfall occurs. Do not apply within 14 days of harvest. Do not apply more than 32 lbs(24.3 lbs. A.I.)/A per crop cycle.

FRUIT AND NUT TREE CROPS *continued*

Crop	Pounds ZIRAM 76		Disease(s)	Directions
	Per 100 Gallons	Per Acre		
Pears	1½ - 2 ①	6 - 8	Fabrea Leaf Spot ① Pear Scab	Apply from pre-bloom through cover sprays as needed. Under severe disease pressure use the higher rate. Do not apply within 14 days of harvest. Eastern U.S. Do not apply more than 56 lbs (42.6 lbs A.I.)/A per crop cycle. Western U.S. Do not apply more than 32 lbs (24.3 lbs A.I.)/A per crop cycle.
		6 - 8	Bull's-Eye Rot (Pacific Northwest only)	Apply in the first cover spray and in pre-harvest spray before fall rains begin. Repeat as necessary, especially if excessive rainfall occurs. Do not apply within 14 days of harvest. Do not apply more than 32 lbs (24.3 lbs A.I.)/A per crop cycle.
Peaches Eastern U.S.	1½ - 2 ①	4½ - 8	Peach Scab Brown Rot	Apply at pre-bloom through cover sprays as needed. Under severe disease pressure use the higher rate. Do not apply more than 72 lbs (54.8 lbs A.I.)/A per crop cycle. Do not apply within 14 days of harvest.
	1½ - 2 ①	3½ - 6	Peach Leaf Curl	Make dormant applications after leaf drop and/or prior to bud swell.
Nectarines Eastern U.S.	1½ - 2 ①	4½ - 8	Peach Scab Brown Rot	Apply at pre-bloom through cover sprays as needed. Under severe disease pressure use the higher rate. Do not apply more than 72 lbs (54.8 lbs A.I.)/A per crop cycle. Do not apply within 14 days of harvest.
Peaches, Nectarines Western U.S.	2 - 2½ ①	6 - 8	Shot-hole Brown Rot	Apply at pre-bloom through cover sprays or as needed. Under severe disease pressure use the higher rate. Do not apply more than 56 lbs (42.6 lbs A.I.)/A per crop cycle. Do not apply within 30 days of harvest.
	2½ - 3½	8 - 10	Peach Leaf Curl	Make dormant applications after leaf drop and/or prior to bud swell.
Apricots Western U.S.	2 ①	6	Shot-hole Brown Rot	Apply at popcorn, full bloom, petal fall, and/or 5 weeks after petal fall, and in cover sprays, as needed. Do not apply more than 30 lbs (22.8 lbs A.I.)/A per crop cycle. Do not apply within 30 days of harvest.
Cherries Eastern U.S.	1½ - 2½ ①	5 - 8	Brown Rot Leaf Spot	Apply at pre-bloom through cover sprays as needed. Under severe disease pressure use the higher rate. Do not apply more than 40 lbs (30.4 lbs A.I.)/A per crop cycle. Do not apply within 14 days of harvest.
Cherries Western U.S.	2 ①	6	Brown Rot Leaf Spot	Apply at pre-bloom through cover sprays as needed. Do not apply more than 30 lbs (22.8 lbs A.I.)/A per crop cycle. Do not apply within 30 days of harvest.
Pecans		6 - 8	Pecan Scab Anthracnose	Begin applications when leaves are ¼ - ½ inches long. Repeat after pollination is complete for up to 5 cover sprays at 3-4 week intervals. Do not apply more than 64 lbs (48.6 lbs A.I.)/A per crop cycle. Do not apply within 55 days of harvest.

① Not registered for this use in California.

② Based on dilute sprays of 400 gallons per acre.

③ Based on dilute sprays of 300 gallons per acre.

ORNAMENTAL CROPS (NOT FOR USE IN CALIFORNIA)

Crop	Lbs / 100 Gallons	Disease	Directions
Asters	1½ - 2	Rust	Begin application in early season and continue at 7-day intervals or as needed until blossoms form.
Carnations, Marigolds, Morning Glory Snapdragons	1½ - 2	Rust	Apply at 7 to 10-day intervals or as needed throughout growing season.
Carnations, Chrysanthemums, Dahlias, Gladiolus Snapdragons	1½ - 2	Leaf Spot	Apply at 7 to 10-day intervals or as needed throughout growing season.
Azaleas Camellias	1 - 2	Petal Blight	Begin application with first bloom. Repeat at 7 to 10 day intervals or as needed through bloom. Apply as a drench to mulch and litter beneath and around bushes.
Cyclamens Gardenias	1½ - 2	Botrytis Leaf Spot	Apply as needed throughout the growing season.
Dahlias Delphinium Golden Glow Hollyhocks Phlox	1½ - 2	Powdery Mildew	Apply at 7 day intervals or as needed throughout growing season.
Roses	1 - 2	Black Spot Powdery Mildew	Begin application when leaves unfold. Repeat at 7 to 10 day intervals or as needed throughout season.

Note: Due to the continuous development of new varieties of each of the ornamental plants and trees listed above, it is recommended that prior to the first use on a particular ornamental variety, the grower treat a small sample (6-10) with the product at recommended dose to determine if there is going to be phytotoxicity, including but not limited to necrosis, leaf burn or stunting.

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ORNAMENTAL TREES

Crop	Lbs / 100 Gallons	Disease	Directions
Conifers Pine Seedlings	2	Cristiform Rust	Begin application at time of emergence. Repeat at 3 to 5 day intervals or as needed to mid June
Douglas Fir Christmas Trees	2	Needle Rust (Melampsora)	Make one application in the spring when new shoot growth is 1/2 to 2 inches in length
Shasta Fir Christmas Trees	2	Needle Rust (Puccineastrum)	Make a single application in the spring when new shoot growth is 1/2 to 2 inches in length

① Not for use in California

SMALL FRUIT AND VEGETABLE CROPS

Crop	Pounds ZIRAM 70		Disease(s)	Directions
	Per 100 Gallons	Per Acre		
Grapes		3 - 4	Black Rot Downy Mildew Phomopsis Cane Leaf Spot Ripe Rot Botrytis Bunch Rot (aided in control)	Apply before buds swell. Repeat after blossoming but before fruit forms
Tomatoes (Do not use on cherry tomatoes)		3 - 4	Anthrachnose Early Blight Septoria Leaf Spot	Begin applications at first sign of infection and continue at 7-14 day intervals. Use the shorter spray interval under high disease pressure. Do not apply more than 24 lbs (18.2 lbs A.I.)/A per crop cycle. Do not apply within 7 days of harvest. Ziram can be mixed with copper fungicides to enhance bacterial disease control.

STORAGE AND DISPOSAL

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

STORAGE INSTRUCTIONS: Store in the original container in a dry area. Keep away from sources of ignition (e.g. sparks and open flame). Close bag when not in use. Do not store in a manner where cross-contamination with other pesticides, fertilizers, food or feed could occur. If spilled during storage or handling, sweep up spillage and dispose of 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: 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 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' LAEL OR COST OR OTHER EXPENSES INCURRED IN PLANTING OR HARVESTING.

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