

PM 23 4581-140 1044
21 DEC 1992

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

Dear Mr. Skwara:

Subject: Ziram 76 Fungicide
EPA Registration No. 4581-140
Application Dated July 8, 1992, Requesting Amendment of
Precautionary Labeling and New Alternate Formula,
Responding to Agency's Letter of June 22, 1992

The proposed new confidential statement of formula submitted on EPA Form 8570-4 and dated July 8, 1992 was reviewed and found to be acceptable under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) as amended. As requested this becomes the formula for this registration and no other formula will be shipped under the labeling you submitted with the subject application.

The acute toxicological data submitted in support of the registration under FIFRA have been reviewed and a copy of the review is enclosed for your records. Note, at this time this product will not be classified on the basis of the eye irritation data, because you have addressed that risk or exposure by labeling precautions that require the use of eye protection equipment. This matter will be re-addressed at the time of re-registration of this and other similar products that may cause irreversible eye damage. As indicated in the review, the acute oral toxicity study was classified as supplementary data due to the wide range of body weights of the test animals (rats). This study must be repeated, in order to have an acceptable data base for the subject formulation of this pesticide product.

The proposed labeling has been reviewed and is acceptable under FIFRA as amended, provided that you:

1. Revise the "If Swallowed" statements to read as follows:

"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."

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2. Submit five (5) printed copies of the final printed labeling 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 under the subject alternate brand name constitutes acceptance of these conditions.

Sincerely yours,

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

Enclosures (2)

L. Wilson: Diskette #ABC 4: 12-18-92

elf atochem
ATO

PROPOSED LABEL

4581/146
JUL 1992

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

CORROSIVE. CAUSES IRREVERSIBLE EYE DAMAGE IF INHALED. HARMFUL IF SWALLOWED OR ABSORBED. Do not get in eyes or on clothing. Wear goggles, etc., when handling. Do not breathe dust or spray mist. Use respirator jointly approved by the Mining Enforcement and the National Institute for Occupational Safety and Health. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

ENVIRONMENTAL HAZARDS

This product is toxic to fish. Use only in areas adjacent to any body of water. Do not apply directly to water, to areas where 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 apply to water when disposing of equipment.

PHYSICAL OR CHEMICAL HAZARDS

Keep away from fire and sparks.

STORAGE AND DISPOSAL

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

Storage Instructions: Store in the original container away from sources of ignition (e.g., sparks and open flames) and when not in use. Do not store in a manner where other pesticides, fertilizers, food or feed could be contaminated by storage or handling. Sweep up spillage and dispose of according to the Pesticide Disposal Instructions listed below.

Pesticide Disposal Instructions: Pesticide wastes are acutely toxic. Improper disposal of excess pesticide, spray mix, or empty container is a violation of Federal law. If these wastes cannot be disposed of by the instructions on the label, contact your State Pesticide Control Agency, or the Hazardous Waste representative at the nearest EPA Office for guidance.

Container Disposal Instructions: Completely empty the container. Then dispose of empty bag in a sanitary manner, or, if allowed by State and local authorities, burn in a controlled incinerator. Do not burn.

WARRANTY AND DISCLAIMER

Elf Atochem North America warrants that this material conforms to the description on the label for the purposes intended for use. ELF ATOCHEM MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY, IN NO CASE SHALL ELF ATOCHEM BE LIABLE FOR CONSEQUENTIAL, SPECIAL, OR INDIRECT DAMAGES RESULTING FROM THE USE OF THIS PRODUCT INCLUDING, BUT NOT LIMITED TO, LOSS OF PROFITS, BUSINESS, REVENUE, OR OTHER EXPENSES INCURRED BY CUSTOMERS OR OTHERS.

Elf Atochem and seller of this product and the buyer and user assume the risk of loss and liability which may be incurred by agreement in writing by the parties.

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**

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

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

See the panel for Precautionary Statements.

EPA Reg. No. 4581-146

EPA Est. No. 33910-HL-01

NET CONTENTS 40 LBS./18 KGS.

Sold by

ELF ATOCHEM NORTH AMERICA, INC.—AGCHEM DIVISION
Philadelphia, PA

GENERAL INFORMATION

Ziram 75 is effective against many fungus diseases. It has excellent adhesive properties and is safe on a wide range of plants. It is compatible with Fertilizers, insecticides, and many commonly used pesticides. Wash the required amount of ZIRAM 75 through the filter screen while filling the sprayer with water, or make into a paste with water and pour into the spray tank while filling.

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 dense applications, use ZIRAM 75 at recommended rate per 100 gallons of spray unless otherwise stated. These label recommendations per gallon of water is equivalent to one pound per 100 gallons of water.

For commercial applications, by air, use ZIRAM 75 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.

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.

Where certain states may require more restrictive reentry intervals for various crops treated with this product, consult your state Department of Agriculture for further information.

Warning 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. If symptoms of skin or eye irritation occur call a physician. When oral warnings are given, warnings shall be given in a language customarily understood by workers. Oral warnings shall 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 75 Fungicide on (date of application). Do not enter without 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. If symptoms of skin or eye irritation occur call a physician."

PLANT AND CROP

Crop	Lbs/100 Gallons	Lbs/A	Disease	Directions	Limitations (see limitations)
Almonds	114-2 + 4 oz. Sprayer-Sealer	8-12	Shot-hole (Fungus)	Apply at petiole, full bloom, petal fall, and 5 weeks later.	1, 2
			Brown Rot (Blasphemy and Tully Blight)	Apply at petiole and full bloom.	
			Leaf Blight	Apply at petal fall and 5 weeks later.	
Apples	1-114	716-10	Apple Scab	Apply at pre-bloom, early, and cover sprays. In Washington, apply in first cover spray and in early September on Delicious variety and late September on Winesap as a pre-harvest 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.	
Apricots	116	8-10	Brown Rot	Apply in pre-bloom, blossom, and petal fall stages and in early cover sprays.	5
	114 + 4 oz. Sprayer-Sealer		Shot-hole (Fungus)	Apply at pre-bloom, 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.	
	116-2			For post-harvest application in the fall before heavy rains.	6
Cherries	116		Brown Rot	Apply at petiole, full bloom, petal fall, and as necessary in cover applications.	8
			Leaf Spot	Apply at petal fall, growth fall, and about 2 weeks after growth fall.	
Guavas, Passion	116-3	8-10	Petal Leaf Curl	Apply at cover and blossom stages. For West Coast use on guavas for leaf curl, apply just before full bloom or in November and repeat in 3 months while trees are still dormant and again in blossom stage.	12, 13
	116-6		Brown Rot	Apply at petal fall, 20% to 75% of full bloom, petal fall, and cover stages.	

Pears	1-114	716-10	Pear Scab (West Coast Only)	Apply in pre-bloom, early, and cover stages.	3, 4
			Bull's-Eye Rot (Pacific Northwest Only)	Apply pre-harvest prior to fall rains. Repeat if necessary, especially if excessive rainfall occurs.	
Peaches	2		Scab	Begin applications when leaves are 14 to 16 inch long. Repeat after petiole fall and up to 5-6 weeks later, a through August.	14

COMMERCIAL CROPS

Crop	Lbs/100 Gallons	Disease	Directions
Almonds	114/12 gals	Shot	Begin application in early season and continue at 7-day intervals until blossoms form.
Carrots, Marigolds, Morning Glory, Snapdragons	116	Shot	See label for additional disease control.
Carrots, Chrysanthemums, Dahlias, Gladioli, Snapdragons	116	Leaf Spot	See label for additional disease control.
Apples, Cereals	116-2	Petal Blight	Begin application with first bloom. Repeat at 7 to 10-day intervals through bloom. Apply as a drought to reduce and after bloom and around bushes.
Dahlias, Delphinium, Golden Clover, Hollyhocks, Peas	116	Powdery Mildew	Apply at 7-day intervals throughout growing season.
Peas	116	Black Spot, Powdery Mildew	Begin application when leaves unfold. Repeat at 7 to 10-day intervals throughout season.
Pine Seedlings (in many beds)	2	Fusarium Rust	Begin application at time of emergence. Repeat at 3 to 5-day intervals to mid-June.

NOTE FOR THE USE IN CALIFORNIA

Limitations

1. 8.0 lb/acre—Do not apply later than 5 weeks after petal fall or
2. 10.0 lb/acre—Do not apply later than petal fall
3. 11.5 lb/acre—No time limitation or
4. 12.5 lb/acre—Do not apply within 7 days of harvest
5. 10.0 lb/acre—Do not apply after early cover period
6. 15.0 lb/acre—Post-harvest application
7. N/A
8. N/A
9. 5.0 lb/acre—Do not apply within 7 days of harvest
10. N/A
11. N/A
12. 14.5 lb/acre—Last application at petal fall or
13. 10.0 lb/acre—Remove excess residue by wiping or brushing
14. 10.0 lb/acre—Do not apply later than August