

APR 6 1991

Rodney C. Akers, Ph.D.
BASF Corporation
P.O. Box 13528
Research Triangle Park, NC 27709-3528

Dear Dr. Akers:

Subject: Add Use on Ornamentals
Ronilan DF
EPA Registration No. 7969-85
Your Submission Dated February 7, 1991

The amendment referred to above, submitted in connection with registration under section 3(c)(7)(A) of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), is acceptable provided that you:

1. Submit/cite all data required for registration/reregistration of your product under FIFRA section 3(c)(5) and section 4 when the Agency requires all registrants of similar products to submit such data.
2. Make the labeling change listed below before you release the product for shipment bearing the amended labeling:
 - a. Incorporate the Personal Protective Equipment statements required by our letter dated May 7, 1990.
 - b. In the reentry statement, change "Warning" to "Caution" to conform to the product signal word.
3. Submit one (1) copy of your final printed labeling before you release the product for shipment.

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16338:I:CR-44:Stone:L21-14:KEVRIC:03/22/91:04/19/91:CL:wo:tk

CONCURRENCES							
SYMBOL							
SURNAME							
DATE							

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 5(e). Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions.

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

Sincerely yours,

SL

Susan Lewis
Product Manager (21)
Fungicide-Herbicide Branch
Registration Division (W7505C)

Enclosure

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3.1.1

Label is not
Approved in California

RONILAN® DF Ornamental Fungicide

A dispersible granule for disease control on ornamental plants containing:

ACTIVE INGREDIENT:

Vinclozolin: [3-(3,5-Dichlorophenyl)-5-ethenyl-5-methyl-2,4-oxazolidinedione] 50.0%

INERT INGREDIENTS: 50.0%

TOTAL 100.0%

EPA Reg. No 7969-85
EPA Establishment No. 7969-WG-1

**ACCEPTED
with COMMENTS
in EPA Letter Dated:**

KEEP OUT OF REACH OF CHILDREN

APR 8 1991

CAUTION

Under the federal Insecticide,
Fungicide, and Rodenticide Act as
amended for the pesticide
registered under EPA Reg. No. 7969-85

Precautionary Statements

Causes eye irritation. Do not get on skin, in eyes or on clothing. Harmful if swallowed, inhaled or absorbed through skin. When applying this product - wear goggles or face shield, coveralls or tightly woven long trousers and long sleeved shirt. When mixing or loading or when adjusting, repairing or cleaning equipment wear chemical resistant gloves extending above the wrist, a chemical resistant apron, long trousers and long sleeved shirt. Avoid breathing vapor or spray mist. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before re-use.

Statement of Practical Treatment*

If contacted, flush eyes immediately with water for 15 minutes. Get medical attention. In case of contact with skin or clothing, remove contaminated clothing, wash skin thoroughly with soap and water. This product is a potential skin sensitizer. If irritation persists get medical attention.

Environmental Hazards

Do not apply directly to water. Do not contaminate water when disposing of equipment washwaters. This product is toxic to fish.

Net contents 5 lbs.

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Research Triangle Park, NC
27709-3528

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Re-entry and Worker's Protection Statements

Do not apply this product in such a manner as to directly or through drift expose workers or other persons, except those knowingly involved in the application. 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. Oral warnings must inform workers of areas or fields that may not be entered without specific protective clothing until sprays have dried, 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: "WARNING, Area treated with RONILAN fungicide on (date of application). Do not enter without appropriate protective clothing until sprays have dried. If contacted, flush eyes immediately with water for 15 minutes and get medical attention. In case of contact with skin or clothing, remove contaminated clothing, wash skin thoroughly with soap and water. Call physician if irritation occurs. Wash contaminated clothing before re-use."

DIRECTIONS FOR USE

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

Storage and Disposal

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

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Completely empty contents into application equipment by shaking and tapping on the container to loosen clinging particles. 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.

IN CASE OF EMERGENCY

In case of large-scale spillage regarding this product call:

CHEMTREC 1-800-424-9300
BASF CORPORATION 1-800-832-HELP

In case of medical emergency regarding this product, call:

1. Your local doctor for immediate treatment.
2. Your local poison control center hospital)
3. BASF Corporation 1-800-832-HELP



All applicable directions, restrictions, precautions and Conditions of Sale and Warranty are to be followed. This labeling must be in the possession of the user at the time of application.

Plant Types and Application Instructions

RONILAN DF will control *Botrytis* spp. on the following plant types. For other diseases controlled, see below.

HERBACEOUS ORNAMENTALS

African Violet	Cyclamen	Impatiens	Pilea
Ajuga	Daffodil	Iris	Primrose
Alyssum	Delphinium	Ivy	Primula
Anthurium	Dianthus	Kalanchoe	Saintpaulia
Aphelandra	Dieffenbachia	Liatris	Salvia
Artemesia	Dracaena	Lily	Saxifraga
Aster	Easter Lily	Lupine	Scindapsus
Begonia	Episcia	Marigold	Senecio
Bleeding Heart	Euphorbia	Mathiola	Shasta Daisy
Calceolaria	Fuschsia	Monarda	Sinningia
Carnation	Ganzania	Narcissus	Snapdragon
Chrysanthemum	Geranium	Orchid (Dendrobium)	Statice
Cineraria	Gerbera	Pelargonium	Tulip
Coleus	Gladiolus	Peperomia	Violet
Columbine	Gynura	Petunia	Zinnia
Coral Bells	Gypsophila	Philodendron	
Crossandra	Hoya	Phlox	
Croton	Hyacinth	Poppy, Oriental	

WOODY ORNAMENTALS

Almond, Flowering ¹	Elm	Oregon Grape	Protea spp.
Azalea	Euonymous	Pachysandra	Redwood
Camellia	Ficus ¹	Palm, Areca	Rhododendron
Cedar	Fir	Pine	Schefflera
Cherry, Ornamental ¹	Hydrangea	Plum ¹	Spruce
Chokecherry ¹	Ivy	Poinsettia ²	Vinca
Crape Myrtle	Juniper	Polyscias	

KEY TO NOTES

- ¹ Use only on non-bearing plants. Do not apply within 12 months of harvest.
- ² Do not spray Poinsettia in color, or after November 1. Some cultivars may be sensitive to leaf spotting. Do not use on Poinsettia cultivar V-14 Glory.

RONILAN DF will also control other diseases on some ornamental plant types, as indicated below:

Cibornia - Camellia

Monilinia - Almond, Flowering Cherry, Ornamental Chokecherry, Plum

Ovulinia - Azalea

Sclerotinia - Snapdragon, Hyacinth, Narcissus, Scilla, Zinnia

Stromatina - Gladiolus

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APPLICATION INSTRUCTIONS

I. Foliar Spray Application

Mixing Instructions: Partially fill the spray tank with clean water and begin agitation. Add the required amount of RONILAN DF to the tank according to the spray solution table and fill tank to total volume required. Maintain agitation to keep the material in suspension and apply with properly calibrated spray equipment. Normally, 2 to 6 gallons of spray solution will cover 1,000 square feet of foliage. Apply until leaves glisten, but not to point of runoff.

Application Rates and Timing for Disease Control

Preventive: Apply $\frac{1}{2}$ lb to $\frac{1}{4}$ lb RONILAN DF per 100 gallons of water when conditions for disease prevail. Normally, 2 to 6 gallons of spray solution will cover 1,000 square feet of foliage. Repeat every 10 to 14 days or as needed. Refer to spray solution table for mixing information

Notes to User: Ensure that plants dry off quickly after treatment. Do not spray stressed plants. Do not drench growth media. Do not spray seedlings until formation of three true leaves.

II. Foliar Spray-Thermal Fogger Applications

Thermal foggers such as PlusFog® with a built-in agitator may be used to apply RONILAN DF.

Mixing Instructions: Ensure that fogging device is in working order before preparing solution. In a separate container, prepare fogging solution of 19 ounces of VK-II carrier solution and 51 ounces of water. Then add appropriate amount of RONILAN DF (below). Solution will cover 10,000 square feet of greenhouse area.

Application Rates and Timing for Disease Control

Preventive: Add 0.2 lb RONILAN DF to the volume of fogging solution specified above. Repeat every 10 to 14 days as long as disease conditions prevail.

Curative: Add 0.4 lb RONILAN DF to the volume of fogging solution specified above. Repeat every 10 to 14 days as needed.

Notes to User: Operator must wear a protective suit of one or two pieces that covers all parts of the body except the head, hands and feet. Wear chemical resistant gloves, and chemical resistant shoes, shoe coverings, or boots, and a chemical resistant hat, and a pesticide mask or respirator jointly approved by the Mine Safety and Health Administration (MSHA) and the National Institute, for Occupational Safety and Health (NIOSH). Best results are obtained with treatments made late in the day. Treated area should be ventilated early the next morning. Avoid inhaling vapors. Never fog plants with wet foliage or plants under water stress. Poinsettias should not be fogged once bracts begin to show color.

7020
CUT FLOWERS: GLADIOLUS AND ROSE

Usage

Prevents Gray Mold (*Botrytis gladiorum*) on gladiolus spikes and *Botrytis cinerea* on roses in cold storage or transit.

Application Rates and Timing

As a postharvest dip, dip flower buds 3 to 4 seconds in a solution of 1.5 to 3.0 lb RONILAN DF per 100 gallons of water after grading and prior to cold storage. Addition of wetting agent will enhance spreadability. Maintain suspension by agitation.

ROSE BUDWOOD AND BARERoot NURSERY STOCK

Usage

Prevents Gray Mold (*Botrytis cinerea*) on budwood and nursery stock in storage.

Application Rates and Timing

Use as spray or dip. Spray to runoff, or dip plants in a solution containing 1.5 lb RONILAN DF per 100 gallons of water. Maintain suspension by agitation. Use after harvest and prior to storage.

BULB AND CORM

Plant Types:

Gladiolus, Hyacinth, Iris, Lily, Narcissus, Scilla, Tulip

Application Rates and Timing

As a dip, use a solution containing 1.0 to 2.0 lbs RONILAN DF per 100 gallons of water. Maintain suspension by agitation. Use after harvest and prior to storage.

FIELD GROWN FLOWERS

Usage

Controls Gray Mold (*Botrytis spp.*) during production.

Application Rates and Timing

For aerial application, use 1.5 lbs RONILAN DF in 20 to 25 gallons of water per acre. Apply when conditions for disease prevail. Repeat every 10 to 14 days as needed.

For ground application use a solution containing 1.5 to 2.0 lb. RONILAN DF per 100 gallons of water. Repeat every 10 to 14 days as needed.

Notes to User: Due to variability within species and in application techniques neither the manufacturer or the Seller has determined whether or not RONILAN DF can safely be used on all varieties and species of nonbearing food crops, trees, shrubs, ornamentals, bedding plants, ground covers, nursery and other nonfood crops under all conditions. It is therefore recommended that the professional user determine if RONILAN DF can be used safely prior to broad use.

This determination can be made in the following manner: On a small test area apply recommended use rate of RONILAN DF on a non-labeled species or variety under the conditions expected to be encountered. Any adverse effects should be visible within 14 days.

Restrictions and Limitations

Do not apply more than a total of 12 pounds of product per acre in one year.

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

SPRAY SOLUTION TABLE

Rates of RONILAN DF to use with different amounts of desired spray solution.

Gallons of Water	RATE OF RONILAN DF					
	1/2 lb	3/4 lb	1 lb	1 1/2 lb	2 lb	3 lb
100	1/2 lb	3/4 lb	1 lb	1 1/2 lb	2 lb	3 lb
50	4 oz*	6 oz	8 oz	1 1/2 lb	1 lb	1 1/2 lb
25	2 oz	3 oz	4 oz	6 oz	8 oz	1 1/2 lb
20	1.6 oz	2.4 oz	3.2 oz	4.8 oz	6.4 oz	9.8 oz
10	0.8 oz	1.2 oz	1.6 oz	2.4 oz	3.2 oz	4.8 oz
5	1 1/4 Tbs	1 1/2 Tbs	2 1/4 Tbs	3 1/2 Tbs	4 1/2 Tbs	6 1/2 Tbs
1	1/2 tsp	3/4 tsp	1 1/4 tsp	2 tsp	2 1/2 tsp	4 tsp

* Dry Ounce

Conditions of Sale and Warranty

The Directions for Use of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or use of the product in a manner inconsistent with its labeling, all of which are beyond the control of BASF CORPORATION ("BASF") or the Seller. All such risks shall be assumed by the Buyer. BASF warrants that this product 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 inherent risks referred to above. **BASF MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. IN NO CASE SHALL BASF OR THE SELLER BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.** BASF and the 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 BASF.

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