

241-411

03/29/2001

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Ms. Christina Hartman
BASF Corporation
P.O. Box 400
Princeton, NJ 08543-0400

MAR 29 2001

Dear Ms. Hartman:

SUBJECT: Stature MZ Fungicide
EPA Reg. Number 241-411
Submission dated 2/6/01

The amendments referred to above, submitted in connection with registration under Section (3) of the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) are conditionally accepted provided that you:

1. Submit or cite all data required for registration or reregistration of your product under FIFRA Section 3(c)(5) or 4(a) when the Agency requires all registrants of similar products to submit such data.
2. Submit the following studies which are to be conducted in accordance with the Test Guidelines listed in 40 CFR Part 158:

<u>Guideline Reference Number</u>	<u>Study Title</u>	<u>Date Due</u>
71-1(a) (waiver was denied)	Acute Fish Toxicity-Bluegill	10/1/01
72-2(a) (waiver was denied)	Acute Aquatic Invertebrate	10/1/01
72-4(a) (waiver was denied)	Freshwater Fish Early Life Stage	10/1/02
72-4(a)	Estuarine Fish Early Life Stage	Reserved
72(b)	Estuarine Life Cycle- Invertebrate	Reserved
123-2	Aquatic Plant Growth-Duckweed And Green Algae (TEP-Acrobat 50 WP)	10/1/01

3. Submit production information (pounds or gallons produced) for these products for the fiscal year in which the use on ornamentals was conditionally registered in accordance with FIFRA Section 29. The fiscal year begins October 1 and ends September 30. Production information must be submitted to the Agency no later than November 15, following the end of the preceding fiscal year. This information must be submitted to:

U.S. Environmental Protection Agency
Office of Pesticide Programs (7504C)
Document Processing Desk
1200 Pennsylvania Ave., NW
Washington, DC 20460

- 4. Revise the label as follows:
 - (A) On page 3 under the directions for use, delete the phrase "b regulation." which follows the sentence "Only protected handlers may be in the area during application.". Add the sentence "For any requirements specific to your State or Trib, consult the agency responsible for pesticide regulation."
 - (B) On page 6, delete the letter "b" which appears under the chart.
 - (C) On page 10, delete the arrows on the page and add a period to the last sentence on the page.
- 5. Submit one copy of the final printed labeling before you release the product for shipment.

If these conditions are not complied with, these amendments will be subject to cancellation in accordance with FIFRA Section 6(e). Your release for shipment of the product constitutes acceptance of the conditions. A stamped copy of the label is enclosed for your records. If you have any questions, you may reach me at (703) 308-9354.

Sincerely,



Mary L. Waller
Product Manager 21
Fungicide Branch
Registration Division (7505C)

Enclosure

STATURE™ MZ fungicide

WETTABLE POWDER

**FOR USE ON ORNAMENTAL CROPS GROWN IN
COMMERCIAL GREENHOUSES AND SHADEHOUSES**

ACTIVE INGREDIENTS:

dimethomorph.....	9.0%
mancozeb.....	60.0%
INERT INGREDIENTS.....	31.0%
TOTAL.....	100.0%

EPA Reg. No. 241-411

EPA Est. No. 5905-GA-01

U.S. Patent No. 5,952,496 and Re. 35,985

KEEP OUT OF REACH OF CHILDREN

CAUTION/PRECAUCION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand this label, find someone to explain it to you in detail.)

See Inside for Additional Precautionary Statements
See Directions for Use Inside

In case of an emergency endangering life or property involving this product,
call day or night 800-832-HELP.

Net Contents:

™Trademark of BASF

NVA 2001-05-

BASF Corporation
26 Davis Drive
Research Triangle Park, NC 27709



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

3/29/01

Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under EPA Reg. No. 241-411

FIRST AID

IF SWALLOWED: Call poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS (AND DOMESTIC ANIMALS)

CAUTION

Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. Do not breathe dust or spray mist. Avoid contact with skin, eyes and clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling.

PERSONAL PROTECTIVE EQUIPMENT (PPE):

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category A on an EPA chemical-resistance category selection chart.

Applicators and other handlers (other than mixers or loaders) must wear:

- Coveralls over long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material
- Shoes plus socks

Mixers and Loaders must wear:

- Coveralls over long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material
- Shoes plus socks
- Protective eyewear
- Chemical-resistant apron when cleaning equipment, mixing or loading
- Dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C), or a NIOSH approved respirator with any N, R, P or HE filter.

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 and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

When handlers use closed systems or enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d) (4-6)], the handlers PPE requirements may be reduced or modified as specified in the WPS.

<p>User Safety Recommendations:</p> <p>Users should:</p> <ul style="list-style-type: none"> • Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. • 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.
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ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic invertebrates. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. 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 contaminate water when disposing of equipment washwaters or disposing of wastes.

DIRECTIONS FOR USE

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

THIS LABEL MUST BE IN THE POSSESSION OF THE USER AT THE TIME OF FUNGICIDE APPLICATION. DO NOT apply this product through any type of irrigation system.

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. b regulation.

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 24 hours.

PPE requirements 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, is:

- Coveralls over long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material
- Shoes plus socks

STORAGE AND DISPOSAL:

DO NOT contaminate water, food or feed by storage or disposal.

Storage: Store in a cool, well-ventilated area. DO NOT allow to become overheated in storage. Keep container closed when not in use.

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

Container Disposal: 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.

GENERAL INFORMATION

STATURE MZ is a 69% wettable powder (WP) fungicide used for the control of a broad spectrum of diseases on ornamental plants grown in greenhouses and shadehouses. STATURE MZ is a broad-spectrum fungicide to be used in a preventative spray program. Consult the Use Direction Table.

STATURE MZ must be used in accordance with this label.

STATURE MZ has a different mode of action than other fungicide chemical classes. It can be used in disease management programs where fungicide rotation is emphasized to help prevent the development of resistance.

Carefully read, understand, and follow all directions and precautions.

Disease pressure and environmental conditions will determine the length of the spray interval. Sprayers should be properly calibrated before application.

MIXING INSTRUCTIONS

Fill the spray tank until it is approximately 1/2 full with clean water. Add STATURE MZ to the spray tank while agitating. Agitation must be engaged prior to the addition of the product to obtain a complete and uniform mixture of STATURE MZ. Add other fungicides, insecticides, growth regulators, micronutrients, and spray adjuvants after STATURE MZ has been placed in suspension. Once mixing is complete, add water to desired volume.

When preparing spray solutions for use in a hand sprayer, premix as a slurry in a small container, and then add to sprayer containing 1/3 to 1/2 the desired final water volume and agitate. Once mixing is complete, add water to desired volume.

COMPATIBILITY

The tank-mixing behavior of this fungicide with other pesticides has not been fully investigated. If tank mixing with other pesticides is desirable, conduct a jar test with rates and volumes of carrier typically used in an agricultural application. Look for signs of separation, globules, sludge, flakes or other precipitates. **DO NOT** tank mix with the other pesticide if the jar test with STATURE MZ has indicated incompatibility.

DISEASE MONITORING

STATURE MZ is a broad spectrum protectant fungicide. If not applied on a routine protectant spray schedule, crops should be examined on a weekly basis. Fungicide application should be made, at the recommended label use rate and spray schedule, at the first sign of disease, or during environmental conditions favorable for disease development.

RESTRICTIONS

DO NOT use on plants for food or feed purposes.

DO NOT apply this product through any type of irrigation system.

USE RATE DETERMINATION

Carefully read, understand, and follow all directions and precautions.

Disease pressure and environmental conditions will determine the length of the application interval. Under severe or threatening disease conditions, the minimum interval should be used.

For proper application, determine the number of square feet to be treated and the gallonage to be applied per 1000 square feet. Prepare only the amount of spray solution required to treat the measured area. Careful calibration of spray equipment is recommended prior to use. If you have questions about calibration, you should contact State Extension Service Specialist or Horticultural Consultant, equipment manufacturers or other experts.

- Neither the manufacturer nor the seller has determined the effects of using STATURE MZ fungicide on all ornamental species and cultivars. For this reason, it is recommended that prior to any large-scale application on such plants, the user should determine the effects of STATURE MZ fungicide by testing a small section of the type of plants to be treated. User assumes all risks arising out of application to unlabeled plants. The DISCLAIMER applies to all uses.

PRODUCT USE DIRECTIONS

For greenhouses and shadehouses apply the equivalent of 1.75 lbs. STATURE MZ fungicide per 100 gallons of dilute spray, or consult the dilution table for product use in smaller volumes.

Thoroughly spray plant foliage until runoff.

Begin spraying when plants are well established or at first sign of disease, in a full coverage spray at 7-10 day intervals throughout the production cycle.

Gallonage	Pounds of Formulated Product	Ounces of Formulated Product	Grams of Formulated Product
100	1.75	28	794
10	0.175	2.8	79
5	0.09	1.4	40

b

Use Directions

Crop	Diseases Controlled	Remarks (Also refer to Directions for Use)	Restrictions
Greenhouse plants: Potted plants, bedding plants, cut flowers and foliage plants			
African Violet	Botrytis blight Downy mildew Phytophthora parastica*		(Applies to all Ornamental uses.)
Allysum	Downy mildew		
Anthurium	Anthraco nose spadix rot		
Aster, perennial	Rusts		
Begonia	Botrytis blight		
Carnation	Downy mildew Rust Septoria leaf spot		
Dianthus	Downy mildew		
Chrysanthemum	Ascochyta blight Botrytis petal spot Rust	Apply twice weekly during blooming period.	
Dahlia	Botrytis blight		
Dieffenbachia	Leptosphaeria brown spot		
Dracaena	Fusarium leaf spot		
Fern	Rhizoctonia blight		
Ficus	Cercospora leaf spot		
Fuchsia	Botrytis blight, Rust		
Geranium	Rust		
Gerberia daisy	Downy mildew		
Gladiolus	Botrytis blossom blight, Curvularia leaf spot	Make regular weekly applications starting before diseases appear and increase to 2 or 3 applications per week during periods of heavy disease and during rainy weather. On flower spikes, reduce spray concentration to 1 lb. per 100 gals.	
Hydrangea	Botrytis blight, Cercospora leaf spot		
Iris	Didymellina leaf spot, Mystrosporium ink spot		
Limonium (Statice)	Downy mildew		
Lily	Botrytis blight		
Marigold	Botrytis blossom blight	DO NOT USE on French dwarf double or Signet- type marigold seedlings.	
Narcissus	Botrytis blight (fire), Smoulder		
Orchid (Dendrobium)	Botrytis blossom blight		

Pansy	Anthracnose Downy mildew Phytophthora parastica* Rust		
Peperomia	Cercospora leaf spot		
Perwinkle (Vinca)	Phytophthora parastica*		
Philodendron	Dactylaria leaf spot, Phytophthora leaf spot		
Phlox	Downy mildew		
Poinsettia	Sphaceloma scab		
Rose (cut or potted) Miniature Rose	Black spot, Cercospora leaf spot Downy mildew Rust		
Schefflera	Alternaria blight		
Snapdragon	Downy mildew Phytophthora parastica* Rust		
Statice (Limonium)	Cercospora frog-eye Downy mildew		
Stock	Downy mildew		
Sunflower	Downy mildew		
Syngonium	Cephalosporium leaf spot		
Tulip	Botrytis blight (fire)		
Venus, flytrap	Anthracnose		
Viola	Anthracnose Downy mildew Phytophthora parastica* Rust		
Vinca (Perwinkle)	Phytophthora parastica*		
Zinnia	Alternaria leaf blight		

*For suppression of *Phytophthora parastica*. Apply a directed spray (spreng) to stem and crown of plants prior to visible disease symptoms and continue preventative applications on a 5-7 day spray interval.

Woody Ornamentals:			
Arborvitae	Cercospora blight		
Ash, mountain	Entomosporium leaf spot, Guignardia leaf blotch		
Ash, white	Anthracnose, Cylindrosporium leaf spot		
Aucuba-japonica	Alternaria leaf spot, Anthracnose		
Azalea	Cylindrocladium rot, Petal blight, Phytophthora twig, bud blight	Apply in a full coverage spray, 2 to 3 times a week, while flowers are opening. Direct spray into flowers and thoroughly drench the soil.	
Buffaloberry	Cylindrosporium leaf spot		DO NOT USE fruit for food or feed purposes
Camellias	Petal blight	Refer to Azalea.	
Cedar, red (Juniper)	Cercospora blight, Phomopsis blight		
Conifers	Lophodermium needle cast, Pine gall rust, Scirrhia brown spot	Begin application in spring or early summer before infection occurs. Repeat after heavy rains and at two-week intervals as long as needed.	
Cordyline	Cercospora leaf spot		
Crabapple (Ornamental)	Cedar-apple rust, Scab, Sphaeropsis leaf spot		
Cypress, Arizona (Cupressus sp.)	Cercospora blight, Monochaetia canker		
Dogwood, Flowering	Anthracnose, Elsinoe leaf spot, Septoria leaf spot	Apply when buds begin to open, when bracts have fallen, 4 weeks later and again in late summer after flower buds for next season have formed.	
Elm	Black leaf spot		
Euonymus	Anthracnose		
Fatsia	Anthracnose		
Fir, Douglas	Swiss needle cast		
Firethorn (Pyracantha)	Fusicladium scab		
Hawthorn	Cedar-apple rust, Fabraea leaf spot, Frogeye leaf spot Hawthorn rust, Scab		
Holly	Purple spot		
Hollyhock	Anthracnose, Cercospora leaf spot, Rust		
Honeysuckle	Herpobasidium blight		
Horsechestnut, Buckeye	Alternaria leaf spot, Guignardia leaf blotch		
Juniper	Phomopsis blight		
Laurel, mountain	Cercospora leaf spot, Petal blight	Refer to Azalea.	

Ligustrum	Cercospora leaf spot		
Magnolia	Gloeosporium leaf spot		
Maple	Alternaria leaf spot, Phyllosticta leaf spot		DO NOT USE ON SUGAR MAPLES INTENDED FOR THE PRODUCTION OF MAPLE SYRUP.
Oak	Actinopelte leaf spot, Taphrina leaf blister		
Peony	Botrytis blossom blight Phytophthora blight	Apply in early spring and early fall, drenching soil around plants as well as the foliage. Promptly destroy all infected plant parts.	
Photinia	Entomosporium leaf spot		
Pleomele	Fusarium leaf spot		
Rhododendron	Cercospora leaf spot, Discosia leaf spot, Petal blight	Refer to Azalea.	
Skunkbush, sumac	Cylindrosporium leaf spot		
Viburnum	Downy mildew, Ramularia leaf spot		
Walnut	Anthraxnose		Do not use treated walnuts for food or feed purposes.

Disease pressure and environmental conditions determine application rates and spray intervals. Applications should begin prior to the onset of disease infection. Apply STATURE MZ to insure spray runoff.

DO NOT exceed 2.25 lbs/acre/application and no more than 11.25 total lbs/acre in any one season

DISCLAIMER

The label instructions for the use of this product reflect the opinion of experts based on research and field use. 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 the use of, or application of the product contrary to label instructions, all of which are beyond the control of BASF Corporation. All such risks shall be assumed by the user.

BASF shall not be responsible for losses or damages resulting from use of this product in any manner not set forth on this label. User assumes all risks associated with the use of this product in any manner not specifically set forth on this label.

BASF warrants only that the material contained herein conforms to the chemical description on the label and is reasonably fit for the use therein described when used in accordance with the directions for use, subject to the risks referred to above.

BASF DOES NOT MAKE OR AUTHORIZE ANY AGENT OR REPRESENTATIVE TO MAKE ANY OTHER WARRANTIES. EXPRESS OR IMPLIED AND EXPRESSLY EXCLUDES AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

BUYER'S EXCLUSIVE REMEDY AND BASF'S EXCLUSIVE LIABILITY, WHETHER IN CONTRACT, TORT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE, SHALL BE LIMITED TO REPAYMENT OF THE PURCHASE PRICE OF STATURE MZ fungicide. 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.

ATTENTION: This product contains mancozeb and ETU, chemicals known to the State of California to cause cancer. ETU is also known to the State of California to cause birth defects or other reproductive harm.

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BASF Corporation
26 Davis Drive
Research Triangle Park, NC 27709



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