

228-388

11/18/2003

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U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (7505C)
401 "M" St., S.W.
Washington, D.C. 20460

EPA Reg. Number:
228-388

Date of Issuance:
NOV 18 2003

Term of Issuance:
Conditional

Name of Pesticide Product:
MMMCCCXXXVI F

NOTICE OF PESTICIDE:
 Registration
 Reregistration
(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):
Riverdale Chemical Company
1333 Burr Ridge Parkway, Suite 125A
Burr Ridge, IL 60527-0866

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

1. Submit/cite all data required for the registration/ reregistration of your product when the Agency requires all registrants of similar products to submit data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.
2. Make the following label changes:
 - a. Change the EPA Registration Number to 228-388.
 - b. Directions for Use - General Information:
Add the sentence "Do not apply this product through any type of irrigation system."

(Continued)

Signature of Approving Official:
Mary L. Waller
Mary L. Waller, Product Manager 21
Fungicide Branch, Registration Division

Date:
11/18/03

c. Directions for Use - Turf Application:

- Change "Residential Lawn Restrictions" to "Residential and Public Area Restrictions"
- Following the "Golf Course Restrictions - fairways" section change "Note: 2 fl. ozs./1000 sq. ft. = 2.74 lbs./acre" to "Note: 2 ozs. product/1000 sq. ft. = 2.72 lbs. active ingredient/acre".

d. Directions for Use - Turf Application Rates:

Under the "Pink Snow Mold" heading change the second sentence to "A second application may be used in combination with chlorothalonil, Defend (Pentachloronitrobenzene, also known as Terrazole or Quintachlor) or Spotrete (Thiram) at recommended rates before snow cover or during Spring thaw."

e. Directions for Use - Horticultural Applications:

- In the Nursery, Greenhouse, Landscape and Interiorscape section under "Annual and Perennial Flowers ..." change "The maximum single application is 1.8 lbs a.i. per acre. Do not apply within 1 day (24 hr) of harvest)" to "The maximum single application rate for homeowners is 1.8 lbs a.i. per acre and the maximum single application rate for certified applicators and those under their immediate supervision is 3.0 lbs a.i. per acre. Certified applicators or those under their immediate supervision may not apply this product to home orchards/backyard fruit trees after fruit set."
- Change the heading "Ground Application Instructions" to "Application Instructions."
- Delete "through appropriate sprinkler irrigation, flood or drip systems" from the sentence following the heading "Ground Application Instructions".

f. Directions for Use - "Plant Dip Application" Table:

Change the heading "Rate of Controlled MMMCCCXXXVI F 100 gallon" to "Rate of MMMCCCXXXVI F (fl oz per 100 gallons)".

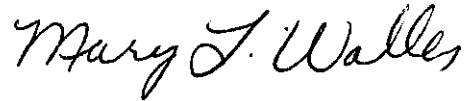
g. Storage and Disposal:

Change the heading "Storage" to "Pesticide Storage".

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records. If you have any questions, contact Lisa Jones of my staff at (703) 308-9424 or at jones.lisa@epa.gov.

Sincerely,



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

Enclosure: Stamped copy of label

Riverdale°

4/13

MMCCCXXXVI™ F

TURF AND ORNAMENTAL SYSTEMIC FUNGICIDE

FOR THE PREVENTION AND CONTROL OF TURF DISEASES AND THE DISEASES OF ANNUAL AND PERENNIAL FLOWERS, BEDDING PLANTS, FOLIAGE PLANTS, GROUND COVERS, PLUS DECIDUOUS AND EVERGREEN TREES AND SHRUBS.

ACTIVE INGREDIENT:

Thiophanate-methyl(dimethyl 4,4'-o-phenylenebis [3-thioallophanate])	41.25%
INERT INGREDIENTS:	58.75%
TOTAL	100.00%

This product contains 4.0 lb. Thiophanate-methyl per gallon

MMCCCXXXVI is a Trademark and Riverdale is a Registered Trademark of Riverdale - A Nufarm Company

KEEP OUT OF REACH OF CHILDREN

CAUTION

SEE INSIDE BOOKLET FOR ADDITIONAL PRECAUTIONARY

AND FIRST AID STATEMENTS

EPA REG. NO. 228-GII

NET CONTENTS GALS.

EPA EST. NO. 228-IL-1

MANUFACTURED BY NUFARM AMERICAS INC., BURR RIDGE, ILLINOIS 60527-0866

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

NOV 18 2003

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

228-388

Per 5/15/03 EPA letter.

PRECAUTIONARY STATEMENTS**HAZARDS TO HUMANS AND DOMESTIC ANIMALS****CAUTION**

Harmful if swallowed, inhaled, or absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Avoid breathing vapor or spray mist. Remove contaminated clothing and wash clothing before reuse.

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 C on an EPA chemical resistance selection chart.

WPS Uses: Applicators and other handlers who handle this pesticide for any use covered by the Worker Protection Standard, 40 CFR Part 170, must wear: long-sleeved shirt, long pants, chemical resistant gloves (such as barrier laminate, butyl rubber > 14 mils, nitrile rubber > 14 mils, neoprene rubber > 14 mils, polyvinyl chloride (PVC) > 14 mils, or Viton > 14 mils) and shoes with socks. For exposures in enclosed areas: a respirator with a NIOSH approved respirator with an organic vapor (OV) approved cartridge or canister with any N, R, P or HE filter.

NON-WPS Uses: Applicators and other handlers who handle this pesticide for any use NOT covered by the Worker Protection Standard, 40 CFR Part 170, should wear: long-sleeved shirt and long pants, and shoes with socks.

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

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 outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

FIRST AID STATEMENT

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

IF SWALLOWED: Call a 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 a poison control center or doctor. Do not give anything by mouth to an unconscious person.

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15 to 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.

IF ON SKIN Take off contaminated clothing. Rinse skin immediately with plenty

6/13

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish. 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 contaminate water by disposal of equipment washwaters. Do not apply, allow to drift, or drain or flush equipment onto non-target areas.

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 workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide 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 12 hours. Exemption: If the product is applied by drenching, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

PPE required 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, Chemical resistant gloves (such as barrier laminate, butyl rubber > 14 mils, nitrile rubber > 14 mils, neoprene rubber > 14 mils, polyvinyl chloride (PVC) > 14 mils, or Viton > 14 mils), and shoes plus socks.

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box only apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Turf and Landscape Uses: Keep children and pets out of treated areas until spray has dried.

GENERAL INFORMATION

Riverdale MMMCCCXXXVI™ F is a broad spectrum fungicide exhibiting preventative, curative and systemic properties. It is useful on a wide variety of turf and ornamental disease problems. Apply MMMCCCXXXVI F with ground equipment, using sufficient volume of spray to provide thorough coverage. Use the higher rates under conditions of severe disease pressure. Also, see local State Extension Service recommendations for application schedules. Do not apply with fixed-wing or rotary aircraft.

Resistance Management: To avoid the development of tolerant strains of fungi, MMMCCCXXXVI F should be used with fungicides of different modes of action. Nufarm does not recommend the use of products containing thiabendazole in combination or rotation with MMMCCCXXXVI F. These utilize similar chemistry and mode of action and can contribute to development of disease tolerance. If, after using MMMCCCXXXVI F as recommended, the treatment is not effective, a tolerant strain of fungi may be present. Consult your local Riverdale Chemical representative, your State Agricultural Experiment Station, or your State Cooperative Extension Service for proper disease identification and advice on the prompt use of some other suitable fungicide or disease control strategy. As long as recommended precautions are followed, MMMCCCXXXVI F can remain useful for disease control.

Mixing Instructions: SHAKE WELL BEFORE USING. Some settling may occur during prolonged periods of non-use. High pH environments cause a shortened tank life for diluted product. The buffering of tank water to pH 6-7 prior to the addition of MMMCCCXXXVI F is recommended. Add required amount of MMMCCCXXXVI F to a partially filled tank (1/2 total volume) and agitate by mechanical or hydraulic means. Add tank mix product if used (see below), agitate again and then add the remaining required amount of water. Continuous agitation is recommended to keep the material in proper suspension. For best results, use spray mixture the same day it is prepared.

Tank Mixing Instructions: MMMCCCXXXVI F is compatible with most commonly used pesticides. If tank mixing with other materials, add products in the following order: water soluble bags, wettable powders, dry flowables, liquid flowables, emulsifiable concentrates, and soluble materials such as fertilizers. No claim of compatibility with other products is implied. Do not tank mix with copper-containing materials or with highly alkaline pesticides, such as Bordeaux mixture or lime sulfur. Consult the intended tank mix partner product label for appropriate application rates and use instructions. Follow the label directions for the most restrictive of label precautions and limitations. This product cannot be mixed with any product containing a label prohibition against such mixing. Read and observe the most restrictive precautionary statements and other information appearing on product labels used in mixtures. MMMCCCXXXVI F may be applied in conjunction with chemically neutral liquid fertilizers. Application in conjunction with highly alkaline fertilizers, such as aqueous ammonia, may cause a degradation of the pesticide, resulting in reduced performance and should be avoided.

TURF APPLICATIONS

MMMCCCXXXVI F may be used on all fine turf applications such as commercial and residential lawns, parks, athletic fields, golf course greens, tees, and fairways, cemeteries, with cool and warm season grasses such as Bentgrass, Bluegrass, Bermudagrass, Fescue, Ryegrass, St. Augustinegrass, Zoysiagrass, or their mixtures. MMMCCCXXXVI F is not phytotoxic to any of the above mentioned grasses when used in accordance with the label. Not for use on turf being grown for sale or other commercial use as sod. Not for homeowner turf use. For use by individuals/firms licensed or registered by the State to apply ornamental or turf pest control products.

MMMCCCXXXVI F is to be used for the prevention and control of the diseases mentioned below. It has both preventative and curative activity. Do not graze animals on treated turf. Do not feed clippings to live-stock or poultry.

Application Instructions: Apply material with properly calibrated, mechanical or motorized spray equipment. Spray uniformly over the area to be treated. Apply recommended amounts in sufficient water to obtain thorough coverage of treatment area (2-gal per 1,000 sq ft is suggested). When treating golf greens, always treat tees, greens and aprons. Use the highest recommended rate under conditions of severe disease pressure. For best results, apply after

mowing or avoid mowing twelve hours after application. Lightly water the treatment area to move the fungicide into active root zone with one to two tenths inch of water. Excessive irrigation may move application below active root zone and reduce application effectiveness. Green design and drainage will influence irrigation practices. When tank mixing with contact action fungicides for foliar diseases, applications should be allowed to dry on leaf surfaces. Normal watering may proceed after sprays have dried.

Residential Lawn Restrictions:

Maximum application rate = 2.72 lbs. a.i./acre/application

Maximum annual application rate = 10.88 lbs. a.i./acre

Minimum retreatment interval = 14 days

Golf Course Restrictions - tees, greens and aprons:

Maximum single application rate = 8.16 lbs. a.i./acre/application

Maximum annual application rate = 21.8 lbs. a.i./acre

Minimum retreatment interval = 14 days

Golf Course Restrictions - fairways:

Maximum annual application rate:

Outside Florida = 5.45 lbs. a.i./acre

In Florida = 2.72 lbs. a.i./acre - only during overseeding

Note: 2 fl. ozs. product/1000 sq. ft. = 2.74 lbs. active ingredient/acre

For all the turf diseases listed below, applications must observe the maximum individual application rates and maximum seasonal application rates listed in Residential and Public Area Restrictions and Golf Course Restrictions.

Disease(s) Controlled

Rate of

MMMCCCXXXVI F

fl oz/1,000 sq. ft.

Anthracnose, basal *Colletotrichum graminicola*

4 to 8

Anthracnose, foliar *Colletotrichum graminicola*

2 to 4

For prevention in historic areas of disease pressure, apply twice at 14 day intervals when soil temperature reaches 60°F. For curative control, apply when disease first appears and continue at 14 day intervals. Rotations and/or tank mix combinations with chlorothalonil or triadimefon can be utilized.

Bermudagrass Decline

4 to 8

Gaeumannomyces graminis var. *graminis*

Take-All-Patch

Gaeumannomyces graminis var. *avenae*

Apply in mid-July or when disease symptoms first appear and repeat at 14 day intervals for suppression. Use higher rates under most severe disease expression. Follow proper agronomic recommendations to maintain plant vigor.

Cool Season Brown Patch *Rhizoctonia cerealis*

4 to 8

Necrotic Ring Spot *Leptosphaeria korrea*

Spring Dead Spot *Leptosphaeria korrea*

For prevention, apply in Fall before turf has stopped all growth activity. Apply second application in early Spring when soil temperatures reach 55-60°F or when disease first appears. For curative action, apply when disease first appears in early Spring and continue at 14 day intervals.

Coprinus Snow Mold 4 to 8
Coprinus psychromorbidus

Apply 2 treatments at 21 day intervals in late Fall to early Winter, with the last application made just prior to first permanent snow cover. Rotations and/or tank mix combinations with Defend can be utilized.

Dollar spot *Moellerodiscus*, *Lanzia* 2 to 4
 Large Brown Patch *Rhizoctonia solani*
 Ascochyta Leaf Blight *Ascochyta*
 Copper Spot *Gloeocercospora sorghi*
 Fusarium Patch *Fusarium nivale*
 Red Thread *Corticium fuciforme*
 Zoysia Patch *Rhizoctonia solani*

Apply when disease first appears and continue at 14 day intervals. Rotations and/or tank mix combinations with Chlorothalonil, iprodione, or Protect T/O (Zinc Ion and Manganese Bisdithiocarbamate) can be utilized.

Fusarium Blight *Fusarium roseum*, *F. triticum* 4 to 8

Apply when disease first appears 14 day intervals.

Gray Leaf Spot (Blast) *Pyricularia grisea* 4 to 8

Apply preventative application before expected period of disease development. Continue applications at 14 day intervals.

Leaf Spot *Drechslera* 4 to 8
 Leaf, Crown, and Root Diseases
Bipolaris, *Curvularia*, *Exserohilum*

Apply when disease first appears and make applications at 14 day intervals. Rotations and/or tank mix combinations with Chlorothalonil, iprodione, or Protect T/O (Zinc Ion and Manganese Bisdithiocarbamate) are recommended under severe conditions.

Pink Snow Mold *Microdochium nivale* 2 to 4

Apply in late Fall to early Winter before turf has stopped all growth activity. A second application may be used in combination with chlorothalonil, Defend or Sporetre™ (Thiram) at recommended rates before snow cover or during Spring thaw.

Rusts *Puccinia*, *Uromyces* 4 to 8

Apply at 14 day intervals when disease first appears. Rotations and/or tank mix combinations with chlorothalonil or Protect T/O (Zinc Ion and Manganese Bisdithiocarbamate) are recommended.

 Stripe Smut *Ustilago striiformis*

4 to 8

Apply at 14 day intervals when disease first appears. For prevention, apply in spring and fall.

Summer Patch *Magnaporthe poae*

4 to 8

For prevention, apply 3 applications starting late April or early May using 21 day intervals. Rotations and/or tank mix combinations may be used as part of the three application program.

For suppression, apply at 14 day intervals when disease first appears. Water treatment in active root zone.

HORTICULTURAL APPLICATIONS

NURSERY, GREENHOUSE, LANDSCAPE & INTERIORSCAPE

Annual and Perennial Flowers, Bedding Plants, Foliage Plants, Ground Covers, plus Deciduous and Evergreen Trees and Shrubs: MMMCCCXXXVI F is a broad spectrum systemic fungicide which controls a variety of foliar, stem, and root diseases on a wide range of commercially important plants. MMMCCCXXXVI F is also effective as a pre-plant dip on cuttings and bulbs. For soil drench applications, best crop protection is achieved with preventative treatments repeated every 21 to 28 days. For foliar applications, begin treatments when disease first appears, or during suspected periods of disease incidence. Apply additional applications every 7 to 14 days or as otherwise instructed for the prevention or control of the listed diseases. Use of a wetting agent is recommended for plants that have leaves that are difficult to wet properly. Use of a spreader-sticker is recommended to enhance product performance in wet weather conditions or during periods of overhead irrigation. Homeowners may not apply to home orchards/fruit or nut trees (i.e. "backyard" fruit trees such as almond, apple, apricot, cherry, nectarine, peach, pecan, plum, and prune trees). The maximum single application is 1.8 lbs a.i./acre. Do not apply within 1 day (24 hr) of harvest. MMMCCCXXXVI F may be applied as a ground application using mechanical or motorized spray equipment; See specific instructions below. For foliar applications, do not exceed thirty six (36) pounds active ingredient per acre per crop season from all thiophanate-methyl containing products. For soil drench applications, do not exceed 300 pounds active ingredient per acre per crop season from all thiophanate-methyl containing products.

Note: The "Directions For Use" of this product reflect the cumulative inputs from both historical field use and product testing programs. However, it is impossible to test this product on all species and cultivars. A preliminary trial is suggested on a small scale before a full treatment is applied to any plant type not shown on this label but found in a similar use site with a listed disease problem. Wait 5 to 7 days after treatment to evaluate results. This product is not recommended for use on Swedish Ivy (*Neprolepis exaltata*), Boston Fern (*Plectranthus australis*), and Easter Cactus (*Hatiora gaertneri*).

Ground Application Instructions: Apply material with properly calibrated mechanical or motorized spray equipment or through appropriate sprinkler irrigation, flood, or drip systems. Begin applications when disease first appears and repeat at 7 to 14 day intervals or as needed during the growing season. Use the shortest interval when conditions are unusually favorable to the development of disease. For hand held, mechanical, or motorized applications, mix 8 to 24 fl. oz. of MMMCCCXXXVI F per 100 gal water and apply as a full coverage spray to drip for the prevention and control of the diseases listed below. Spray volume may range up to 400 gallons of finished spray per acre depending upon plant species and plant growth stage.

Special Instructions For Proportional Injectors (e.g. Dosatron, Dosmatic, Anderson, and similar equipment)

Determine the treatment rate as indicated below in the ground application column for crop and pathogen. Determine the injection ratio for the individual system to be used for application.

For systems using a 1:100 ratio. measure and add the exact amount of recommended material per 100 gallons to each gallon of water in a stock bucket or tank. For systems using a 1:200 ratio, multiply the recommended amount per 100 gallons by 2. For systems using a 1:50 ratio, divide the recommended amount per 100 gallons added by 2. For systems using a 1:16 ratio, divide the recommended amount per 100 gallons by 6. Greater accuracy in calibration and distribution will be achieved by injecting a larger volume of a more dilute suspension per unit time. An injection ratio of 1:100 is recommended for most greenhouse and nursery systems.

FOLIAR APPLICATION

NURSERY, GREENHOUSE, LANDSCAPE & INTERIORSCAPE

Annual and Perennial Flowers, Bedding Plants, Foliage Plants, Ground Covers, plus Deciduous and Evergreen Trees and Shrubs: Use fluid ounce/100 gallon rate.

Disease(s) Controlled	Rate of MMMCCCXXXVI F: fl. oz. per 100 gallon per acre
Anthracnose	12 to 16

Colletotrichum

Apply as buds break or at first sign of disease. Repeat at 7 to 14 day intervals as needed during disease period.

Black Spotted Rose <i>Diplocarpon rosae</i>	12 to 16
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Apply early summer or at first sign of disease. Repeat every 7 to 14 days as needed during disease period.

Brown Rot and Blight <i>Monilinia, Sclerotinia, Whetzellinia</i>	12 to 16
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Apply late Spring or at first sign of disease. Repeat every 7 to 14 days as needed during disease period.

Fusicladium and Venturia Leaf Scabs on: Crabapple, Hawthorn, Pear, Mountain Ash, <i>Pyracantha</i> .	12 to 16
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Apply as buds break. Repeat every 7 to 14 days during disease period. Effective control requires coverage during leaf expansion.

Leaf Spots and Blights caused by:	12 to 16
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Ascochyta, Blumeriella, Botrytis, Cercospora, Coccoomyces, Corynespora, Curvularia, Didymellina, Entomosporium, Fabraea, Fusarium, Ramularia, Rhizoctonia Marssonina, Mycosphaerella, Myrothecium, Phoma, Physalospora, Schizothyrium, Septoria, Sphaceloma.

Apply when disease symptoms first appear. Repeat every 7 to 14 days as needed during disease period. Rotations and/or tank mix combinations with Protect T/O or chlorothalonil

can be utilized.

Ovulinia Blight

8 to 16

Apply as flowers open. Repeat every 7 to 14 days as needed during disease period.

Powdery Mildews

12 to 24

Erysiphe, Microsphaera, Phyllactinia,
Podospaera, Oidium, Sphaerotheca

Apply when disease first appears and repeat every 7 to 14 days during disease period. Rotations and/or tank mix combinations with Protect T/O or triadimefon can be utilized.

Rust Diseases

12 to 16

caused by:

Puccinia, Gymnosporangium, Uromyces

Apply late Spring or when symptoms first appear. Repeat every 7 to 14 days during disease period. Rotations and/or tank mix combinations with Protect T/O or chlorothalonil are recommended.

Tip Blight of Pine

16 to 24

Sphaeropsis sapinea, Diplodia pinea

Begin application in spring when new growth starts. Make a second application just before needles emerge from the sheath and a third application 14 days later. Thorough coverage is essential for optimal disease control.

Twig Blights, Cankers and Diebacks

16 to 24

Diaporthe, Kabatina, Phoma, Phomopsis

Apply when symptoms first appear. Repeat every 7 to 14 days as needed during disease period.

SOIL DRENCH APPLICATION

Stem, Crown, and Root Rots

8 to 16 oz. per

caused by:

100 gallons

Botrytis, Cylindrocladium, Fusarium, Gliocladium, Myrothecium, Penicillium, Ramularia, Rhizoctonia, Sclerotinia, Black Root Rot Thielaviopsis

Apply as a drench or directed spray using hand held, mechanical, or motorized spray equipment, or directed spray systems after seeding or sticking of cuttings (8 fl oz) or after transplanting (12 to 16 fl oz) to propagation beds, containers, pots, trays, or nursery or landscape beds at a rate to thoroughly soak the growing media through the root zone. A general guide is 0.25 - 3.0 pints of finished mixture per sq ft depending on the media type and depth (about 4 fl oz per 4 inch pot or 8 fl oz per 6 inch pot). Repeat every 21 to 28 days for adequate crop protection. **Note:** MMMCCCXXXVI F does not control Pythium or Phytophthora. Tank mix combinations with mefenoxam, etridiazole, fosetyl-A1 are

required for the control of Pythium and Phytophthora.

PLANT DIP APPLICATION

Disease(s) Controlled	Rate of MMMCCCXXXVI F 100 gal
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Plant or Cutting Diseases caused by:	16 to 24
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Botrytis, Cyllindrocladium, Fusarium, Gliocladium, Myrothecium, Penicillium, Ramularia, Rhizoctonia, Sclerotinia, Thielaviopsis

Immerse plants or cuttings for 10 to 15 minutes. Remove and allow to drain. **Note:** Follow accepted hygiene practices to minimize the introduction and spread of water borne bacterial and water mold fungal diseases.

Bulb, Corm, and Rhizome Rots caused by:	16 to 24
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Botrytis, Cyllindrocladium, Fusarium, Gliocladium, Myrothecium, Penicillium, Ramularia, Rhizoctonia, Sclerotinia, Thielaviopsis

Soak cleaned bulbs for 15 to 30 min in warm solution (80-85° F). For storage disease prevention, treat bulbs preferably within 48 h after digging. After treatment, dry well before storing. If bulbs are for forcing, treat bulbs that have been heat-cured. **Note:** Follow accepted hygiene practices to minimize the introduction and spread of water borne bacterial and water mold fungal diseases.

STORAGE AND DISPOSAL

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

Storage: Store in the original container in a dry, temperature controlled area. Do not store in a manner where cross-contamination with other pesticides, fertilizers, food or feed could occur. If spilled during storage or handling, contain/re-capture spillage and dispose of in accordance with the Pesticide Disposal Instructions listed below.

Pesticide Disposal: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by the 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: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

WARRANTY

Seller warrants that this fungicide conforms to the chemical description on its label. When used in accordance with label directions under normal conditions, this fungicide is reasonably fit for its intended purposes. Since timing, method of application, weather, plant and soil conditions, mixtures with other chemicals, and factors affecting the use of this product are beyond our control, no warranty is given concerning the use of this product contrary to label directions or under conditions which are abnormal or not reasonably foreseeable. The user assumes all risks of any such use.