

1001-78

07/14/2004

1/18

 <p>U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs Registration Division (7505C) Ariel Rios Building 1200 Pennsylvania Ave. NW Washington, D.C. 20460</p> <p>NOTICE OF PESTICIDE: <u> X </u> Registration Reregistration (under FIFRA, as amended)</p>	EPA Reg. Number: 1001-78	Date of Issuance: JUL 14 2004
	Term of Issuance: Conditional	
	Name of Pesticide Product: Extend F	
Name and Address of Registrant (include ZIP code): Cleary Chemical Corporation 178 Ridge RD, Suite A Dayton, NJ 08810		
<p>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.</p> <p>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.</p> <p>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.</p> <p>This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:</p> <ol style="list-style-type: none"> 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 change: Change the EPA Registration Number to 1001-78. 3. Submit a completed corrosion characteristic study, OPPTS number 830.6320 by September 1, 2005. 4. Submit a completed storage stability study, OPPTS number 830.6317 by September 1, 2005. 5. Submit one (1) copy of the revised final printed label before you release the product for shipment. <p>(Continued)</p>		
Signature of Approving Official: <i>Mary L. Waller</i> Mary L. Waller, Product Manager 21 Fungicide Branch, Registration Division	Date: 7/14/04	

EPA Registration Number 1001-78

Continued from first page.

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)

Enclosures: Stamped copy of label
 30 October 2003 Acute Toxicity Review
 10 December 2003 Product Chemistry Review

EXTEND F

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.

NOT FOR HOMEOWNER USE

Active Ingredient:

Thiophanate-methyl (dimethyl-4,4'-o-phenylenebis[3-thioallophanate])	19.4%
Other Ingredients	80.6%
Total:	100.0%

KEEP OUT OF REACH OF CHILDREN
CAUTION
See side panels for additional precautionary statements

FIRST AID	
If Inhaled	<ul style="list-style-type: none"> • 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 poison control center or doctor for treatment advice.
If Swallowed	<ul style="list-style-type: none"> • Call poison control center or doctor for treatment advice. • Do not induce vomiting unless told to do so by the poison control center or doctor. • Have person sip a glass of water if able to swallow. • Do not give anything by mouth to an unconscious person.
If In Eyes	<ul style="list-style-type: none"> • 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 further treatment advice.
If On Skin Or Clothing	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for further treatment advice.
For emergency information, call (732) 329-8399 or your poison control center.	
Have the product container or label with you when calling a poison control center or doctor or going for treatment.	
<i>See side/back panels for additional precautionary statements</i>	

EPA Reg No. 1001-T1

Net Contents: 1 Quart, 1 Gallon, 2.5 Gallon

EPA Establishment No. 70815-GA-1

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

JUL 14 2004

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

Manufactured For:
CLEARY CHEMICAL CORPORATION
178 Ridge Road, Suite A
Dayton, New Jersey 08810-1501

1001-78

4/18

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
CAUTION

Harmful if swallowed, absorbed through skin or inhaled. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Avoid breathing vapor or spray mist. 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 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 sleeve 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 NIOSH-approved respirator with an organic vapor-removing (OV) cartridge or a 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 sleeve shirt, 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

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 aquatic invertebrates. Do not apply directly to water, areas where surface water is present or to intertidal areas below the mean high water mark. Drift or runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing 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.

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 sprays have dried.

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, greenhouses and handlers of agricultural insecticides. 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.

GENERAL INFORMATION

Failure to follow directions and precautions on this label may result in crop injury, poor insect control, and/or illegal residues.

Extend 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 Extend F with ground or overhead equipment, using sufficient volume of spray to provide thorough coverage. Do not apply with fixed wing or rotary aircraft. Use the higher rates under conditions of severe disease pressure. Also, see local State Extension Service recommendations for application schedules. This product is not for homeowner use, and can only be used by individuals/firms licensed under the direction of or registered by the state to apply ornamental or turf pest control products. Chemigation instructions follow "Directions For Use". Read and follow these instructions carefully for this method of application.

Resistance Management: To avoid the development of tolerant strains of fungi, Extend F should be used with fungicides with different modes of action. Cleary Chemical does not recommend the use of products containing thiabendazole in combination or rotation with Extend F. These utilize similar chemistry and mode of action and can contribute to development of disease tolerance. If, after using Extend F as recommended, and the treatment is not effective, a tolerant strain of fungi may be present. Consult your local Cleary 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, Extend F can remain useful for disease control.

SHAKE WELL BEFORE USING. Some settling may occur during prolonged periods of non-use.

Mixing Instructions: **SHAKE WELL BEFORE USING:** Some settling may occur during prolonged periods on 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 Extend F is recommended. Add required amount of Extend F to partially filled tank (½ total volume), agitate by mechanical or hydraulic means, add tank mix product if used (see below), agitate again and then add 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: Extend F may be compatible with most commonly used pesticides. If tank mixing with other materials, add products in the following order: 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. Read and observe the most restrictive precautionary statements and other information appearing on product labels used in mixtures. Extend 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.

CHEMIGATION REQUIREMENTS

Generic Requirements

1. Apply this product only through the following types of systems: sprinkler including center pivot, lateral move, end tow, side (wheel) roll, traveler, solid set, or hand move; flood (basin); or drip (trickle) irrigation systems. Do not apply this product through any other type of irrigation system.
2. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.
3. If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.
4. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.
5. A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

Specific Requirements

1. Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.
2. Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.
3. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back towards the injection pump.
4. The pesticide injection pipeline must contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being drawn from the supply tank when the irrigation system is either automatically or manually shut down.
5. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.
6. Systems must use a metering pump, such as a positive displacement injection pump (e.g. diaphragm pump), effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
7. Do not apply when wind speed favors drift beyond the area intended for treatment.

Non-Specific Requirements

1. Remove scale, pesticide residue, and other foreign matter from the chemical tank and entire injector system. Flush with clean water.
2. Prepare a suspension of product in the mix tank or stock bucket. Fill the tank with 1/2 or 3/4 of the desired amount of water. Start agitation and add the required amount of product to the solution along with the remaining volume of water.
3. Maintain a gentle agitation in the mix tank during application to assure a uniform suspension. Follow mixing instructions and tank mixing instructions previously indicated.
4. Start system and then uniformly inject the suspension of Extend F into the irrigation line so as to deliver the desired rate per acre. Allow sufficient time for pesticide to be flushed through all lines and all nozzles before turning off irrigation system.
5. Greater accuracy in calibration and distribution will be achieved by injecting a larger volume of a more dilute suspension per unit time.
6. The suspension of Extend F should be injected with a positive displacement pump into the main line ahead of a right angle turn to insure adequate mixing.

Sprinkler (Overhead) Chemigation

Observe all instructions in the Generic, Specific and Non-Specific Requirements sections above and the following additional requirements:

1. The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
2. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

Set sprinkler system to deliver 1/10 to 1/4 inches of water per acre. Volumes of water higher than this may reduce efficacy. Application of more than recommended quantities of irrigation water per acre may result in decreased product performance. Where sprinkler distribution patterns do not overlap sufficiently, unacceptable disease control may result. When system connections or fittings leak, when nozzles do not provide uniform distribution or when lines containing the product cannot be flushed and must be dismantled and drained in a center pivot system, block the nozzle set nearest the well pivot injection unit to prevent spray being applied to this area. Allow sufficient time for pesticides to be flushed through all lines and all nozzles before turning off irrigation water.

9/18

Flood (Basin) Chemigation

1. Systems using a gravity flow pesticide dispensing system must meter the pesticide into the water at the head of the field and downstream of a hydraulic discontinuity such as a drop structure or weir box to decrease potential for water source contamination from backflow if water flow stops.
2. Systems utilizing a pressurized water and pesticide injection system must meet the following requirements: Observe all instructions in the Generic, Specific and Non-Specific Requirements sections above and items 1 and 2 of the sprinkler irrigation requirements.

Drip (Trickle) Chemigation

Observe all instructions in the Generic, Specific and Non-Specific Requirements sections above.

TURF APPLICATIONS

Extend F may be used on all fine turf applications such as commercial, residential and public (such as, home lawns, parks, athletic fields, schools, and day care centers), and golf course fairways of cool and warm season grasses such as Bentgrass, Bluegrass, Bermuda grass, Fescue, Ryegrass, St. Augustine grass, Zoysia grass, or their mixtures. Extend F is not phytotoxic to any of the above mentioned grasses when used in accordance with the label. Extend 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 livestock or poultry. Not for use on turf being grown for sale or other commercial use as sod.

Application Instructions: Apply material with properly calibrated hand held, mechanical or motorized spray equipment or by chemigation through appropriate sprinkler irrigation systems. Spray uniformly over the area to be treated. Apply recommended amounts in sufficient water to obtain thorough coverage of treatment area (2-4 gal per 1,000 sq ft is suggested). Use the highest recommended rate under conditions of severe disease pressure. For best results, apply after mowing or avoid mowing twelve hours after application. For root pathogens, lightly water the treatment area to move the fungicide into the 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.

Table 1: Maximum Individual Application Rates and Minimum Re-Treatment Intervals

Do not exceed the amounts per acre or reduce the re-treatment interval indicated below:

Use Site	Maximum application rate of Extend F	Minimum Re-Treatment Interval	Comments
Residential or Public Areas	1.36 Gallons/Acre (4 oz / 1,000 sq.ft.)	14 days	
Golf Course Fairways –except Florida	2.73 Gallons/Acre (8 oz / 1,000 sq.ft.)	14 days	Excludes Florida
Golf Course Fairways – Florida Only	1.36 Gallons/Acre (4 oz / 1,000 sq.ft.)	14 days	Florida Only One Application Only During Overseeding

Table 2: Maximum Seasonal Application Rates

Do not exceed the following amounts of product per Acre per season:

Use Site	Maximum Gallons Extend F per Acre per Season	Fluid Ounces Extend F per 1,000 sq.ft.	Comments
Residential or Public Areas	5.44 Gallons	16 fl.oz.	4 Apps @ 2-4 oz
Golf Course Fairways –except Florida	2.73 Gallons	8 fl.oz.	1 App @ 8 oz, or 2 Apps @ 4 oz, or 4 Apps @ 2 oz
Golf Course Fairways – Florida Only	1.36 Gallons	4 fl.oz.	Florida Only – During Overseeding 1 App @ 4 oz, or 2 Apps @ 2 oz

Disease(s) Controlled	Rate of Extend F fl oz/1,000 sq ft	Remarks
Anthracnose, basal <i>Colletotrichum graminicola</i> Anthracnose, foliar <i>Colletotrichu graminicola</i>	<p>4-8</p> <p>2-4</p>	<p>For prevention in historic areas of disease pressure, apply twice at 14 day (d) intervals when soil temperature reaches 60°F. For curative control, apply when disease first appears and continue at 14-28 d intervals. Rotations and/or tank mix combinations with chlorothalonil or triadimefon can be utilized.</p>
Bermudagrass Decline <i>Gaeumannomyces graminis</i> var. <i>graminis</i> Take-All-Patch <i>Gaeumannomyces graminis</i> var. <i>avenae</i>	<p>4-8</p>	<p>Apply in mid-July or when disease symptoms first appear and repeat at 14-28 d intervals for suppression. Use higher rates under most severe disease expression. Water treatment into active root zone. Follow proper agronomic recommendations to maintain plant vigor.</p>
Cool Season Brown Patch <i>Rhizoctonia cerealis</i> Necrotic Ring Spot <i>Leptosphaeria korrea</i>	<p>4-8</p>	<p>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 14-28 d intervals. Water treatment into active root zone.</p>
Coprinus Snow Mold <i>Coprinus psychromorbidus</i>	<p>4-8</p>	<p>Apply 2 treatments at 21 d 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 PCNB can be utilized.</p>

<p>Dollar Spot <i>Moellerodiscus, Lanzia</i> Large Brown Patch <i>Rhizoctonia solani</i> Ascochyta Leaf Blight <i>Ascochyta</i> Copper Spot <i>Gloeocercospora sorghi</i> Fusarium Patch <i>Fusarium nivale</i> Red Thread <i>Corticium fuciforme</i> Zoysia Patch <i>Rhizoctonia solani</i></p>	<p>2-4</p>	<p>Apply when disease first appears and continue at 14-28 d intervals. Rotations and/or tank mix combinations with chlorothalonil, iprodione, or mancozeb (Protect T/O) can be utilized.</p>
<p>Fusarium Blight <i>Fusarium roseum, F. triticum</i></p>	<p>4-8</p>	<p>Apply when disease first appears at 14-28 d intervals.</p>
<p>Gray Leaf Spot (Blast) <i>Pyricularia grisea</i></p>	<p>4-8</p>	<p>Apply preventative application before expected period of disease development. Continue applications at 14-28 d intervals.</p>
<p>Leaf Spot <i>Drechslera</i> Leaf, Crown, and Root Diseases <i>Bipolaris, Curvularia, Exserohilum</i></p>	<p>4-8</p>	<p>Apply when disease first appears and make applications at 14-28 d intervals as needed. Rotations and/or tank mix combinations with chlorothalonil, iprodione, or mancozeb (Protect T/O) are recommended under severe conditions.</p>
<p>Pink Snow Mold <i>Microdochium nivale</i></p>	<p>2-4</p>	<p>Apply in late Fall to early Winter before turf has stopped all growth activity. A second application may be used in combination with chlorothalonil, PCNB, or thiram (Spotrete) at recommended rates before snow cover or during Spring thaw.</p>
<p>Rusts <i>Puccinia, Uromyces</i></p>	<p>4-8</p>	<p>Apply at 14-28 d intervals when disease first appears. Rotations and/or tank mix combinations with chlorothalonil or mancozeb (Protect T/O) are recommended.</p>
<p>Stripe Smut <i>Ustilago striiformis</i></p>	<p>4-8</p>	<p>Apply at 14-28 d intervals when disease first appears. For prevention, apply in spring and fall.</p>

Summer Patch <i>Magnaporthe poae</i>	4-8	For prevention, apply 3 applications starting late April or early May using 21 d intervals. Rotations and/or tank mix combinations may be used as part of the three application program. For suppression, apply at 14-28 d intervals when disease first appears. Water treatment into active root zone.
Bentgrass Dead Spot	4-6	For prevention, apply in early June or based upon local extension service recommendations. Apply at 14 day intervals. Rotations and/or tank mix combinations may be used for season long disease prevention

HORTICULTURAL APPLICATIONS

Nursery, Greenhouse, Landscape & Interiorscape

Annual and Perennial Flowers, Bedding Plants, Foliage Plants, Ground Covers, plus Deciduous and Evergreen Trees and Shrubs

Do not apply to home orchard/fruit trees after fruit set.

Extend 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. Extend 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 21-28 days. For foliar applications, begin treatments when disease first appears, or during suspected periods of disease incidence. Apply additional applications every 14-28 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. Extend F may be applied as a ground application using hand held, mechanical or motorized spray equipment, or as a chemigation spray, or through an applicable sprinkler irrigation systems. 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 5-7 days after treatment to evaluate results. This product is not recommended for use on Swedish Ivy (*Neprolepis exhalta*), Boston Fern (*Plectranthus australis*), and Easter Cactus (*Hatiora gaertneri*).

Application Instructions: Apply material with properly calibrated hand held, mechanical or motorized spray equipment or by chemigation thorough appropriate sprinkler irrigation, flood, or drip systems. Begin applications when disease first appears and repeat at 14-28 day intervals or as needed during the growing season. Use the shortest interval when conditions are unusually favorable for the development

EXTEND F

-12-

of disease. For hand held, mechanical, or motorized applications, mix 8-24 fl oz of Extend F per 100 gal water (0.5-1.5 teaspoons per gal) 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. For applications through irrigation systems, refer to aerial use rates indicated in the foliar application chart. For small volume applications less than 100 gallons, divide recommended rate by 16 to get the number of teaspoons of Extend F per gal.

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

Determine the treatment rate for each crop and pathogen from the foliar application table below. 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 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:

Diseases Controlled	Rate of Extend F	Remarks
Anthracnose <i>Colletotrichum</i>	12-16 fl oz/100 gallon	Apply as buds break or at first sign of disease. Repeat at 14-28 day (d) intervals as needed during disease period.
Black Spot of Rose <i>Diplocarpon rosae</i>	12-16 fl oz/100 gallon	Apply early summer or at first sign of disease. Repeat every 14-28 d as needed during disease period.
Brown Rot and Blight <i>Monilinia, Sclerotinia, Whetzellinia</i>	12-16 fl oz/100 gallon	Apply late Spring or at first sign of disease. Repeat every 14-28 d as needed during disease period.
Fusicladium and Venturia Leaf Scabs on: Crabapple, Hawthorn, Pear, Mountain Ash, Pyracantha, etc.	12-16 fl oz/100 gallon	Apply as buds break. Repeat every 14-28 d during disease period. Effective control requires coverage during leaf expansion. Rotations and/or tank mix combinations with mancozeb (Protect T/O), chlorothalonil or propiconazole can be utilized.
Leaf Spots and Blights caused by: <i>Ascochyta, Blumeriella, Botrytis, Cercospora, Cocomyces, Corynespora, Curvularia, Didymellina, Entomosporium, Fabraea, Fusarium, Ramularia, Rhizoctonia, Marssonina, Mycosphaerella, Myrothecium, Phoma, Physalospora, Schizothyrium, Septoria, Sphaceloma</i>	12-16 fl oz/100 gallon	Apply when disease symptoms first appear. Repeat every 14-28 d during disease period. Rotations and/or tank mix combinations with mancozeb (Protect T/O) or chlorothalonil can be utilized.
Ovulinia Blight	8-16 fl oz/100 gallon	Apply as flowers open. Repeat every 14-28 d during disease period.
Powdery Mildews <i>Erysiphe, Microsphaera, Phyllactinia, Podosphaera, Oidium, Sphaerotheca</i>	12-24 fl oz/100 gallon	Apply when disease first appears and repeat every 14-28 d during disease period. Rotations and/or tank mix combinations with mancozeb (Protect T/O) or triadimefon can be utilized.

Rust Diseases caused by: <i>Puccinia, Gymnosporangium,</i> <i>Uromyces</i>	12-16 fl oz/100 gallon	Apply late Spring or when symptoms first appear. Repeat every 14-28 d during disease period. Rotations and/or tank mix combinations with mancozeb (Protect T/O) or chlorothalonil are recommended.
Tip Blight of Pine <i>Sphaeropsis sapinea, Diplodia pinea</i>	16-24 fl oz/100 gallon	Begin application in spring when new growth starts. Make a second application just before needles emerge from the sheath and a third application 10-14 d later. Thorough coverage is essential for optimal disease control.
Twig Blights, Cankers, and Diebacks <i>Diaporthe, Kabatina, Phoma,</i> <i>Phomopsis</i>	16-24 fl oz/100 gallon	Apply when symptoms first appear. Repeat every 14-28 d during disease period.

SOIL DRENCH APPLICATION:

Diseases Controlled	Rate of Extend F	Remarks
Stem, Crown, and Root Rots caused by: <i>Botrytis, Cyindrocladium, Fusarium, Gliocladium, Myrothecium, Penicillium, Ramularia, Rhizoctonia, Sclerotinia</i>	8-16 fl oz/100 gal	Apply as a drench or directed spray using hand held, mechanical or motorized spray equipment or as a chemigation drench or directed spray using applicable sprinkler irrigation systems after seeding or sticking of cuttings (8 fl oz) or after transplanting (12-16 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 21-28 d for adequate crop protection. Note: Extend F does not control <i>Pythium</i> or <i>Phytophthora</i> . Tank mix combinations with metalaxyl, mefenoxam, etridiazole, propamocarb, or fosetyl-Al are required for the control of <i>Pythium</i> and <i>Phytophthora</i> .
Black Root Rot <i>Thielaviopsis</i>		

PLANT DIP APPLICATION:

Diseases Controlled	Rate of Extend F	Remarks
Plant or Cutting Diseases caused by: <i>Botrytis, Cyindrocladium, Fusarium, Gliocladium, Myrothecium, Penicillium, Ramularia, Rhizoctonia, Sclerotinia, Thielaviopsis</i>	16-24 fl oz/100 gal	Immerse plants or cuttings for 10-15 min. 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: <i>Botrytis, Cyindrocladium, Fusarium, Gliocladium, Myrothecium, Penicillium, Ramularia, Rhizoctonia, Sclerotinia, Thielaviopsis</i>	16-24 fl oz/100 gal	Soak cleaned bulbs for 15-30 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 and disposal.

Pesticide Storage: Store in a cool dry place.

Pesticide Disposal: Do not contaminate water, food or feed by storage or disposal. Pesticide wastes may be toxic. Improper disposal of unused pesticide, spray mixture or rinse water is a violation of federal law. If these wastes cannot be used 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 in proper disposal methods.

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.

CONDITIONS OF SALE

CLEARY CHEMICAL CORPORATION 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. CLEARY CHEMICAL CORPORATION makes no other expressed or implied warranty of fitness or merchantability or any other expressed or implied warranty. In no case shall CLEARY CHEMICAL 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, labor costs, or other expenses incurred in planting or harvesting. CLEARY CHEMICAL and 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 CLEARY CHEMICAL CORPORATION.

7/13/04