



U.S. ENVIRONMENTAL PROTECTION AGENCY  
Office of Pesticide Programs  
Registration Division (7505T)  
1200 Pennsylvania Ave., N.W.  
Washington, D.C. 20460

EPA Reg. Number: Date of Issuance:

71085-46 1/15/26

NOTICE OF PESTICIDE:

Registration  
 Reregistration  
(under FIFRA, as amended)

Term of Issuance:

Unconditional

Name of Pesticide Product:

CH-MAN-1942

Name and Address of Registrant (include ZIP Code):

CHEMAGCO LLC  
15401 WESTON PARKWAY  
SUITE 170  
CARY, NC 27513

**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 under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA).

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 unconditionally registered in accordance with FIFRA section 3(c)(5) provided that you:

1. Submit and/or cite all data required for registration/reregistration/registration review of your product when the Agency requires all registrants of similar products to submit such data.

*Continues page 2*

Signature of Approving Official:

Date:

1/15/25

Manjula Unnikrishnan  
Product Manager 21 Fungicide  
Branch Registration Division (7505T)  
Office of Pesticide Programs

2. Make the following label changes before you release the product for shipment:
  - Revise the EPA Registration Number to read, "EPA Reg. No. 71085-46."
  - Add an appropriate EPA Establishment Number and Net Contents information.
3. Submit one copy of the final printed label for the record before you release the product for shipment.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) lists examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records.

The record for this product currently contains the following CSF(s):

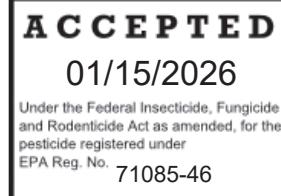
- Basic CSF dated 07/23/2025

If you have any questions, please contact Senedu Alemu at [alemu.senedu@epa.gov](mailto:alemu.senedu@epa.gov).  
Enclosure

[OPTIONAL REFERRAL STATEMENTS FOR COMMERCIAL PACKAGING:

See attached booklet on back for additional Precautionary Statements and complete Directions For Use. See inside for complete Precautionary Statements and Directions For Use. See containers inside for additional Precautionary Statements and complete Directions for Use.]

**CH-MAN-1942**  
**FLOWABLE FUNGICIDE**



**A 37% Coordination Product of Manganese and Zinc and Ethylenebisdithiocarbamate**

**ACTIVE INGREDIENT**

Mancozeb: A coordination product of zinc and manganese ethylene bisdithiocarbamate	37.0%*
Manganese++	7.4%
Zinc++	0.9%
Ethylenebisdithiocarbamate ion (C <sub>4</sub> H <sub>6</sub> N <sub>2</sub> S <sub>4</sub> )--	28.7%
<b>OTHER INGREDIENTS</b>	<b>63.0%</b>
<b>TOTAL</b>	<b>100.0%</b>

\*Equivalent to 4.0 lbs. active ingredient per gallon.

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

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

<b>FIRST AID</b>	
If swallowed	<ul style="list-style-type: none"> <li>Call a poison control center or doctor immediately for treatment advice.</li> <li>Have person sip a glass of water if able to swallow.</li> <li><b>DO NOT</b> induce vomiting unless told to do so by the poison control center or doctor.</li> <li><b>DO NOT</b> give anything by mouth to an unconscious person.</li> </ul>
If inhaled	<ul style="list-style-type: none"> <li>Move person to fresh air.</li> <li>If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>
If on skin or clothing	<ul style="list-style-type: none"> <li>Take off contaminated clothing.</li> <li>Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>
If in eyes	<ul style="list-style-type: none"> <li>Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>Remove contact lenses, if present, after the first 5 minutes, then continue rinsing the eye.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. Contact the Rocky Mountain Poison and Drug Safety at 1-866-673-6671 for emergency medical treatment information.	

**FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure,  
or accident, call CHEMTREC at 1-800-424-9300.**

CHEMAGCO LLC  
15401 Weston Parkway, Suite 170  
Cary, NC 27513

EPA Reg. No. 71085-XX  
EPA Est. No.

Net Contents: \_\_\_\_\_

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

Harmful if swallowed, inhaled or absorbed through skin. Avoid contact with skin, eyes or clothing. Avoid breathing spray (dust, vapor or spray mist). Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove contaminated clothing and wash clothing before reuse.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Some materials that are chemical-resistant to this product are natural rubber and polyethylene.

Mixers, loaders, applicators and other handlers must wear:

- Coveralls, long-sleeved shirt and long pants
- Shoes and socks
- Chemical-resistant gloves made of any waterproof material (except pilots, groundboom applicators, airblast applicators, and seed-treatment handlers who are bagging the treated seed or sewing bags containing treated seed)

In addition mixers/loaders supporting chemigation applications to turf on sod farms must wear a minimum of a NIOSH-approved particulate filtering facepiece respirator with any N, R or P filter; OR a NIOSH-approved elastomeric particulate respirator with any N, R, or P filter; OR a NIOSH-approved powered air-purifying respirator with an HE filter.

For lettuce (head and leaf) and Peppers- aerial applicator on lettuce (head and leaf) and peppers requires that occupational handlers performing mixing/loading operations observe the additional mitigation measure of wearing a minimum of a NIOSH-approved particulate filtering facepiece respirator with any N, R, or P filter; OR a NIOSH-approved elastomeric particulate respirator with any N, R, or P filter; OR a NIOSH-approved powered air-purifying respirator with an HE filter.

For potato seedpiece treatment- When opening the container or loading/pouring the treated seed/seed pieces, wear long-sleeved shirt, long pants, shoes, socks, chemical-resistant gloves and a respirator with a minimum of a NIOSH-approved particulate filtering facepiece respirator with any N, R, or P filter; OR a NIOSH-approved elastomeric particulate respirator with any N, R, or P filter; OR a NIOSH-approved powered air-purifying respirator with an HE filter.

See Engineering Controls for additional requirements.

**User Safety Requirements**

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. **DO NOT** reuse them.

**ENGINEERING CONTROLS STATEMENTS**

When handlers use closed systems, enclosed cabs, or aircraft 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 handler PPE requirements may be reduced or modified as specified in the WPS.

Human flagging is prohibited. Flagging to support aerial application is limited to use of the Global Positioning System (GPS) or mechanical flaggers.

Pilots must use an enclosed cockpit that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (6)]. The handler PPE requirements may be reduced or modified as specified in the WPS.

#### **USER SAFETY RECOMMENDATIONS:**

Users should:

- Remove clothing/PPE 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 pesticide is toxic to aquatic organisms. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. **DO NOT** apply directly to water, or to areas where surface water is present, or to inter-tidal areas below the mean high water mark, except as specified for the labeled use on cranberries. **DO NOT** contaminate water when cleaning equipment or disposing of equipment washwater or rinsate.

#### **DIRECTIONS FOR USE SHAKE WELL BEFORE USING**

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 24 hours.

**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.

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

#### **NON-AGRICULTURAL USE REQUIREMENTS**

The requirements in this box 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.

**DO NOT** enter or allow others to enter into treated areas until sprays have dried.

#### **PRODUCT USE INFORMATION**

CH-MAN-1942 is a broad-spectrum protectant fungicide labeled for outdoor crops. Disease control is achieved when the fungicide is applied in a regularly scheduled preventive spray program. The addition of an agricultural surfactant will improve fungicide performance by providing a more uniform spray deposit, increased foliar redistribution, and improved fungicide retention during periods of wet weather.

#### **USE RATE DETERMINATION**

Carefully read, understand, and follow label use rates and restrictions.

Under low disease conditions, minimum label rates per application can be used while maximum label rates and the minimum retreatment interval must be used for severe or threatening disease conditions.

If only a portion of the container's contents are to be used, thoroughly shake the container prior to measuring. When small quantities of spray solution are being prepared for use in hand or power sprayers, the following conversion table must be followed (rates are based on dilute thorough coverage sprays):

Label Use Rate Per Acre or 100 Gals.*	Fluid Ounces CH-MAN-1942 Required for:			
	10 Gals.	5 Gals.	2 Gals.	1 Gal.
0.8 qts	2.6	1.3	0.5	0.3
1.0 qts.	3.2	1.6	0.7	0.35
1.2 qts.	3.8	1.9	0.9	0.4
1.6 qts.	5.1	2.6	1.0	0.5
2.0 qts.	6.4	3.2	1.3	0.6
2.4 qts.	8.0	4.0	1.6	0.8
3.2 qts.	10.3	5.1	2.1	1.0
4.8 qts.	15.4	7.7	3.1	1.6

1 cup = 8 fluid ounces or 237 milliliters

1 fluid ounce = 2 tablespoons or 30 milliliters

1 tablespoon = 3 teaspoons or 15 milliliters

\* Dilute thorough coverage sprays

## **MIXING**

Add CH-MAN-1942 slowly to water in the spray tank with agitation, or premix thoroughly in a nurse tank for concentrate or aircraft sprayers. Continuous agitation is required to keep the product in suspension. Add other fungicides, insecticides, growth regulators, micronutrients, and spray adjuvants after CH-MAN-1942 has been placed into suspension.

When preparing spray solutions for use in a hand sprayer, premix as a slurry in a small container, and then add to sprayer containing  $\frac{1}{3}$  to  $\frac{1}{2}$  the desired final water volume.

*It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing.*

## **COMPATIBILITY**

CH-MAN-1942 is compatible with most commonly used agricultural fungicides, insecticides, and growth regulators. When preparing tank mixes, user must consult spray compatibility charts or State Cooperative Extension Service Specialists prior to actual use. It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

## **SPRAY ADJUVANTS**

The addition of agricultural surfactants to CH-MAN-1942 sprays may improve initial spray deposits, fungicide redistribution and weatherability.

Place CH-MAN-1942 into suspension prior to adding an adjuvant to the spray mixture. Read and carefully observe the precautionary statements and all other information appearing on both product labels prior to spray preparation.

## **SPRAY DRIFT MANAGEMENT**

A variety of factors including weather conditions (e.g. wind direction, wind speed, temperature, relative humidity) and method of application (e.g. ground, aerial, airblast, and chemigation) can influence pesticide drift. The applicator must evaluate all factors and make appropriate adjustments when applying this product.

**DO NOT** apply at wind speeds greater than 15 mph

If applying at wind speeds less than 3mph, the applicator must determine if a) conditions of temperature inversion exist, or b) stable atmospheric conditions exist at or below nozzle height.

**DO NOT** make applications into areas of temperature inversions or stable atmospheric conditions.

Applicators must follow all state and local pesticide drift requirements regarding application of mancozeb. Where states have more stringent regulations, they must be observed.

All aerial and ground application equipments must be properly maintained and calibrated using appropriate carriers and surrogates.

### *Additional requirements for aerial applications:*

The boom length must not exceed 75% of the wingspan or 90% of the rotor blade diameter. Release spray at the lowest height consistent with efficacy and flight safety. **DO NOT** release spray at a height greater than 10 feet above the crop canopy unless a greater height is required for aircraft safety.

When applications are made with a crosswind, the swath must be displaced downwind. The applicator must compensate for this displacement at the up and downwind edge of the application area by adjusting the path of the aircraft upwind.

*Additional requirements for groundboom application:*

**DO NOT** apply with a nozzle height greater than 4 feet above the crop canopy.

## **CHEMIGATION USE DIRECTIONS**

### **Sprinkler Irrigation**

CH-MAN-1942 must be applied on a regular protectant fungicide schedule, not an irrigation schedule. If irrigation cycles are less frequent than specified CH-MAN-1942 application intervals, ground or aerial applications must supplement chemigation applications to achieve adequate disease control.

Apply CH-MAN-1942 only through sprinkler irrigation systems including center-pivot, lateral move, end tow, side (wheel) roll, traveler, solid set, or hand move irrigation systems. **DO NOT** apply product through any other type of irrigation system.

Lack of fungicidal effectiveness or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.

If you have questions about calibration, you must contact State extension service specialists, equipment manufacturers or other experts.

**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.

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.

Before applying CH-MAN-1942 through sprinkler irrigation equipment, the chemigation system must meet the following specifications:

- 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.
- Chemigation systems connected to public water systems must contain a functional reduced-pressure zone (RPZ), backflow preventer 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 must 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.
- Systems not connected to a public water supply must contain a functional check valve, vacuum relief valve, and low-pressure drain appropriately located in the irrigation pipeline to prevent water source contamination from back flow.
- The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- The pesticide injection pipeline must also 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 withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

- 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.
- 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.
- **DO NOT** apply when wind speed favors drift beyond the area intended for treatment.

**Center-pivot, Lateral Move, End Tow, and Traveler Irrigation Equipment: (Use only with electric or oil hydraulic drive systems which provide a uniform water distribution.)**

- Determine size of area to be treated.
- Determine the time required to apply no more than 1/4 inch water (6,750 gallons water per acre) over the area to be treated when the system and injection equipment are operated at normal pressures instructed by the equipment manufacturer. Run system at 80 to 95% of manufacturer=s rated capacity.
- Using only water, determine the injection pump output when operated at normal line pressure.
- Determine the amount of CH-MAN-1942 required to treat area.
- Add the required amount of CH-MAN-1942 and sufficient water to meet the injection time requirements of the solution tank.
- Maintain constant solution tank agitation during the injection period.
- Stop injection equipment after treatment is completed. Continue to operate the system until CH-MAN-1942 solution has cleared the sprinkler head.

**Solid-set, Side (wheel) Roll, and Hand Move Irrigation Equipment:**

- Determine acreage covered by sprinkler.
- Fill injector solution tank with water and adjust flow rate to use contents over a 10 - to 30-minute interval.
- Determine the amount of CH-MAN-1942 required to treat area.
- Add the required amount of CH-MAN-1942 into the same quantity of water used to calibrate the injection equipment.
- Maintain constant solution tank agitation during the injection period.
- Operate system at normal pressures instructed by the manufacturer of the injection equipment and used for the time interval established during calibration.
- Inject CH-MAN-1942 at the end of the irrigation cycle or as a separate application to maximize foliar fungicide retention.
- Stop injection equipment after treatment is completed. Continue to operate the system until CH-MAN-1942 solution has cleared the last sprinkler head.

**DISEASE MONITORING**

CH-MAN-1942 is a broad-spectrum, protectant fungicide. If not applied on a routine protectant spray schedule, crops must be scouted on a weekly basis. Fungicide application must be made, at the specified label use rate and spray schedule, at the first sign of disease, report of disease in the area, or during environmental conditions favorable for disease development.

**RESTRICTIONS**

Users must carefully read, understand, and follow all use restrictions prior to using CH-MAN-1942.

## **Foliar Applications**

### **Where EBDC Products Used Allow the Same Maximum Poundage of Active Ingredient Per Acre Per year.**

If more than one product containing an EBDC-active ingredient (maneb, mancozeb or metiram) is used on a crop during the same growing season and the EBDC products used allow the same maximum poundage of active ingredient per acre per year, then the total poundage of all such EBDC products used must not exceed any of the specified individual EBDC product maximum seasonal poundage of active ingredient allowed per acre.

### **Where EBDC Products Used Allow Different Maximum Poundage of Active Ingredient Per Acre Per year**

If more than one product containing an EBDC-active ingredient is used on a crop during the same growing season and the EBDC products used allow different maximum poundage of active ingredient per acre per year, then the total poundage of all such EBDC products used must not exceed the lowest specified individual EBDC product maximum seasonal poundage of active ingredient allowed per acre.

## **Seed Treatment**

In addition to the maximum number of foliar applications permitted by the formula stated above, a single application for seed treatment may be made on crops that have registered seed treatment uses.

## **APPLICATION INSTRUCTIONS**

**Ground** - Thorough coverage of the targeted crop results in disease protection. To achieve good coverage, use proper spray pressure, gallons per acre, nozzles, nozzle spacing, and tractor speed. Consult spray nozzle and accessory catalogues for specific information on proper equipment calibration. Use 20 to 100 gallons per acre for ground application equipment. **DO NOT** apply with a nozzle height greater than 4 feet above the crop canopy.

**Hand Sprayers** - Thoroughly spray plant foliage until runoff.

**Aerial** - A uniform spray deposit over the crop canopy results in disease protection. Each aircraft must be pre-checked for droplet size, uniformity of spray pattern, swath width, and spray volume. During aerial application, human flaggers are prohibited.

**Spray Volume** - Aerial applications are to be made in a minimum of two (2) gallons of water per acre. On vegetable and field crops, 2 to 3 gallons of spray per acre are optimal; orchards and vineyards can be handled with spray volume of 10 gallons per acre. The boom length must not exceed 75% of the wingspan or 90% of the rotor blade diameter. Release spray at the lowest height consistent with efficacy and flight safety. **DO NOT** release spray at a height greater than 10 feet above the crop canopy unless a greater height is required for aircraft safety. When applications are made with a crosswind, the swath must be displaced downwind, the applicator must compensate for this displacement at the up and downwind edge of the application area by adjusting the path of the aircraft upwind.

CROPS	DISEASES	Rate Per Application Qts./A.	DIRECTIONS	RESTRICTIONS
Apples Crabapples Pears Quince	Fabraea Leaf Spot Fly Speck Rusts- including Cedar Apple Rust Quince Rust Scab Sooty Blotch	4.8 qts/A (4.8 lbs ai/A)	Pre-Bloom/Bloom Use: Begin applications at $\frac{1}{4}$ to $\frac{1}{2}$ inch green tip and continue on a 7- to 10- day schedule through bloom.	<b>DO NOT</b> apply more than 19.2 qts. (19.2 lbs. active ingredient) per acre per year. <b>DO NOT</b> apply after bloom. <b>DO NOT</b> graze livestock in treated areas. Maximum number of applications per year is 4. Single maximum application rate is 4.8 qts/A (4.8 lbs ai) PHI: 77 days Minimum RTI: 7 days

CROPS	DISEASES	Rate Per Application Qts./A.	DIRECTIONS	RESTRICTIONS
	Fire Blight	2.4 qts/A (2.4 lbs ai/A)	<p>Extended Application Schedule for Use in Tank Mixtures with Systemic Fungicides: For implementation of IPM programs, applications based on tree-row volume, or for use as a resistance management tool, begin applications at 1/4 to 1/2 inch green tip and continue applications on a 7- to 10-day schedule through the second cover spray.</p> <p>Apply in a minimum of 50 gallons of water per acre.</p> <p>The addition of CH-MAN-1942 to copper fungicides will suppress the disease incidence in orchards where fire blight (<i>Erwinia amylovora</i>) has become resistant to streptomycin.</p> <p>Use the full label rate of copper and follow the application instructions on the copper fungicide label. Apply in a minimum of 50 gallons of water per acre.</p>	<p><b>DO NOT</b> apply more than 9.6 qts.(9.6 lbs. active ingredient) per acre per year.</p> <p><b>DO NOT</b> graze livestock in treated areas.</p> <p>Maximum number of applications per year is 4.</p> <p>Single maximum application rate is 2.4 qts/A (2.4 lbs ai)</p> <p>PHI: 77 days</p> <p>Minimum RTI: 7 days</p>

CROPS	DISEASES	Rate Per Application Qts./A.	DIRECTIONS	RESTRICTIONS
<b>FOR POME FRUITS</b>				
Use either the "Pre-Bloom/Bloom Use" or "Extended Application" schedules DO NOT COMBINE OR INTEGRATE THE TWO TREATMENT SCHEDULES. It is advised that this product be used in an Integrated Pest Management (IPM) program				
Bananas (Plantain)	Sigatoka	1.6 to 2.4 qts/A  (1.6 to 2.4 lbs ai/A)	Apply when leaves first appear and repeat every 14 to 21 days or as required. Use sufficient water to provide adequate coverage. A spreader sticker may be used for better coverage and weatherability.	<b>DO NOT</b> apply more than 24 qts. (24 lbs. active ingredient) per acre per growing cycle. Maximum number of applications per year is 10. Single maximum application rate is 2.4 qts/A (2.4 lbs ai) PHI: 0 days Minimum RTI: 14 days
Cranberries	Fruit Rot	2.4 to 4.8 qts/A  (2.4 to 4.8 lbs ai/A)	Start applications at early bloom and repeat at 7- to 10- day intervals as required.	<b>DO NOT</b> apply more than 14.4 qts. (14.4 lbs. active ingredient) per acre per year. Maximum number of applications per year is 3. Single maximum application rate is 4.8 qts/A (4.8 lbs ai) PHI: 30 days Minimum RTI: 7 days

Grapes	Black Rot Bunch Rot Phomopsis (Deadarm) Downy Mildew	1.2 to 2.0 qts/A  (1.2 to 2.0 lbs ai/A) West of the Rocky Mountains	Apply in sufficient water to provide thorough coverage starting when new shoots are $\frac{1}{2}$ to $1\frac{1}{2}$ inches long. Repeat when shoots are 3 to 5 inches long, when shoots are 8 to 10 inches long, and then at 7- to 10-day intervals until fruit is set or 66 days before harvest. For late season control of black rot, deadarm and downy mildew, the use of other approved and specified fungicides is suggested.	<b>In California, DO NOT apply after bloom. In other areas, DO NOT apply within 66 days of harvest.</b> <b>West of the Rocky Mountains DO NOT apply more than 6 qts. (6 lbs. active ingredient) per acre per year. Maximum number of applications per year is 3. Single maximum application rate is 2.0 qts/A (2.0 lbs ai) Minimum RTI: 7 days</b>
		1.2 to 3.2 qts/A  (1.2 to 3.2 lbs ai/A) East of the Rocky Mountains		<b>East of the Rocky Mountains DO NOT apply more than 19.2 qts. (19.2 lbs. active ingredient) per acre per year. Maximum number of applications per year is 6. Single maximum application rate is 3.2 qts/A (3.2 lbs ai) PHI: 66 days Minimum RTI: 7 days</b>

Papayas	Anthracnose Phytophthora Fruit Rot Black Spot Cercospora	1.2 to 2.0 qts/A  (1.2 to 2.0 lbs ai/A)	Use 20 to 100 gallons water per acre. Start applications at flowering and continue at 14- to 21-day intervals. Direct spray to crown and blossom area. A spreader sticker may be used for better coverage and weatherability.	Do not apply more than 28 qts. (28 lbs. active ingredient) per growing cycle. Maximum number of applications per year is 14. Single maximum application rate is 2.0 qts/A (2.0 lbs ai) PHI: 14 days Minimum RTI: 14 days
Large Tropical Fruit:  Canistel Mamey Sapote Mango Sapodilla Star Apple (Caimito) White Sapote	Anthracnose Black spot (Cercospora) Phytophthora Fruit Rot	1.6 to 2.0 qts/A  (1.6 to 2.0 lbs ai/A)	Start applications at flowering and continue at 14- to 21- day intervals. Direct spray to crown and blossom area. Use 20 to 100 gallons water per acre.	<b>DO NOT</b> apply more than 28 qts. (28 lbs. active ingredient) per acre per year. Maximum number of applications per year is 14. Single maximum application rate is 2.0 qts/A (2.0 lbs ai)  PHI: 0 days Minimum RTI: 14 days
Small Tropical Fruit:  Atemoya Cherimoya Custard Apple Sugar Apple Sweetsop	Anthracnose	1.6 to 1.8 qts/A  (1.6 to 1.8 lbs ai/A)	Begin applications at flowering and continue at a 7-day retreatment interval.  Applications made with aerial equipment must be made in a minimum spray volume of 10 gallons per acre.	<b>DO NOT</b> apply more than 25.2 qts. (25.2 lbs. active ingredient) per acre per year. Maximum number of applications per year is 14. Single maximum application rate is 1.8 qts/A (1.8 lbs ai)  PHI: 0 days Minimum RTI: 7 days

CROPS	DISEASES	RATE PER APPLICATION QTS./A.	DIRECTIONS	RESTRICTIONS
Asparagus	Cercospora Leaf Spot Rust	1.6 qts/A (1.6 lbs ai/A)	Start applications when disease first appears and repeat at 10-day intervals. Four applications are usually sufficient.	Apply only on asparagus ferns after spears have been harvested.  <b>DO NOT</b> apply more than 6.4 qts. (6.4 lbs. active ingredient) per acre per year.  PHI Arizona and California: 120 days PHI All Other States: 180 days Maximum number of applications per year is 4. Single maximum application rate is 1.6 qts/A (1.6 lbs ai) Minimum RTI: 10 days
Corn (sweet corn for fresh use or processing; popcorn; and sweet corn for seed production, including hybrid seed)	Common Rust Helminthosporium Leaf Blight Gray Leaf Spot	0.8 to 1.2 qts/A (0.8 to 1.2 lbs ai/A)	Use sufficient water for thorough coverage. Start applications when disease first appears and repeat at 4- to 7-day intervals.  A spreader sticker may be used for better coverage and weatherability.	<b>East of the Mississippi River, Arkansas and Louisiana, DO NOT</b> apply more than 18 qts. (18 lbs. active ingredient) per acre per year. Single maximum application rate is 1.2 qts/A (1.2 lbs ai) Maximum number of applications per year: 15 <b>West of the Mississippi River (except Arkansas and Louisiana), DO NOT</b> apply more than 6 qts. (6 lbs. active ingredient) per acre per year. Maximum number of applications per year: 5

CROPS	DISEASES	Rate Per Application Qts./A.	DIRECTIONS	RESTRICTIONS
				<p><b>DO NOT</b> feed treated forage to livestock.</p> <p>PHI: 7 days Minimum RTI: 4 days</p>
Cucurbit Crop Group:  Chayote Chinese Waxgourd Citron Melon Cucumber Gherkin Gourd, edible <i>Momordica</i> spp. Muskmelon Pumpkin Squash, summer Squash, winter Water-melon	Alternaria Leaf Spot Anthracnose Cercospora Leaf Spot Downy Mildew Gummy Stem Blight Microdochium Blight <sup>†</sup> Scab	1.6 to 2.4 qts/A (1.6 to 2.4 lbs ai/A)	<p>Start applications when the plants are in the two-leaf stage and repeat at 7- to 10-day intervals. Use sufficient water and direct spray to provide thorough coverage of both upper and lower leaf surfaces. For aerial applications, the minimum spray volume is 2 gallons per acre.</p> <p>Some cantaloupe varieties (i.e. Harvest Queen, Gold Star, Super Star, Sweet and Early, and Saticoy) are sensitive to CH-MAN-1942 fungicide. Consult State Cooperative Extension Service Specialist prior to use.</p>	<p><b>DO NOT</b> apply more than 19.2 qts. (19.2 lbs active ingredient) per acre per year.</p> <p>Single maximum application rate is 2.4 qts/A (2.4 lbs ai) Maximum number of applications per year is 8.</p> <p>PHI: 5 days Minimum RTI: 7 days</p> <p><sup>†</sup>Not registered for this pest by California.</p>
Fennel	Early Blight Late Blight	1.6 qts/A (1.6 lbs ai/A)	<p>Start applications when disease first appears and repeat applications every 7 to 10 days.</p>	<p><b>DO NOT</b> apply more than 12.8 qts. (12.8 lbs. active ingredient) per acre per year.</p> <p>Single maximum application rate is 1.6 qts/A (1.6 lbs ai) Maximum number of applications per year:8</p> <p>PHI: 14 days Minimum RTI: 7 days</p>

Ginseng	Alternaria Blight	1.5 qts/A (1.5 lbs ai/A)	<p>Start applications when disease first threatens and repeat every 7-10 days as needed.</p> <p>In Wisconsin, apply with ground equipment and a minimum of 80 gallons of water per acre.</p>	<p><b>DO NOT</b> apply more than 18 qts. (18 lbs. active ingredient) per acre per year.</p> <p>Single maximum application rate is 1.5 qts/A (1.5 lbs ai)</p> <p>Minimum RTI: 7 days</p> <p>PHI: 30 days</p> <p>Maximum number of applications per year is 12.</p>
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Lettuce (head and leaf)	Downy Mildew	1.2 to 1.6 qts/A (1.2 to 1.6 lbs ai/A)	Begin applications when disease appears and reapply on a 7 to 10-day treatment schedule.	<b>In California, DO NOT</b> apply more than 6.4 qts (6.4 lbs active ingredient) per acre per year. Maximum number of applications: 4 <b>In states other than California, DO NOT</b> apply more than 9.6 qts (9.6 lbs active ingredient) per acre per year. Maximum number of applications: 6 For all states: minimum retreatment interval is 7 days.  <b>DO NOT</b> apply this product with a U-boom device.  PHI in California: 14 days PHI in All Other States: 14 days for leaf lettuce; 10 days for head lettuce. Single maximum application rate is 1.6 qts/A (1.6 lbs ai)
Melons : Cantaloupe Casaba Crenshaw Honeydew (Water-melon: refer to Cucurbit Crop Group)	Alternaria Leaf Spot Anthracnose Cercospora Leaf Spot Downy Mildew Gummy Stem Blight	1.2 to 2.4 qts/A (1.2 to 2.4 lbs ai/A)	Start applications when plants are in the two-leaf stage and repeat at 7 to 10-day intervals. Use sufficient water and direct spray to provide thorough coverage of both upper and lower leaf surfaces. Some cantaloupe varieties (i.e., Harvest Queen, Gold Star, Super Star, Sweet and Early, and Saticoy) are sensitive to mancozeb. Consult State Cooperative Extension Service Specialist Prior to use.	<b>DO NOT</b> apply more than 19.2 qts. (19.2 lbs. active ingredient) per acre per year. Single maximum application rate is 2.4 qts/A (2.4 lbs ai) Maximum applications per year: 8 PHI: 5 days Minimum RTI: 7 days

Onions (dry bulb) Garlic Shallots	Botrytis Leaf Blight Downy Mildew Neck Rot Purple Blotch Rust	1.6 to 2.4 qts/A (1.6 to 2.4 lbs ai/A)	Follow a protective spray schedule starting when diseases are first reported in the area and repeat at 7-day intervals throughout the season. A spreader sticker may be used for better coverage and weatherability. <b>DO NOT</b> allow spray or drift to contact bulbs after lifting from soil.	<b>DO NOT</b> apply more than 24 qts. (24 lbs. active ingredient) per acre per year.  <b>DO NOT</b> apply to exposed bulbs. Single maximum application rate is 2.4 qts/A (2.4 lbs ai) Maximum applications per year:10 Minimum RTI: 7 days PHI: 7 days
Onions (furrow drench)	Damping-off Seed Rots Seedling Blights Smut	2.4 qts/A (2.4 lbs ai/A)	Apply as a furrow drench at time of planting onion seeds. Use 75 to 125 gallons of water per acre.	<b>DO NOT</b> use more than 2.4 qts. (2.4 lbs. active ingredient) per acre (29,000 linear feet of furrow) with an 18-inch row spacing. Single maximum application rate is 2.4 qts/A (2.4 lbs ai) Maximum applications per year:1 Minimum RTI: Not applicable PHI: Not applicable Not registered for use by California
Pepper	Anthracnose Early Blight Phomopsis Blight or Fruit Rot	West of the Mississippi: 1.2 to 1.6 qts/A  (1.2 to 1.6 lbs ai/A)  East of the Mississippi: 1.2 to 2.4 qts/A  (1.2 to 2.4 lbs ai/A)	Begin application when disease appears and reapply on a 7 to 10-day spray schedule.	<b>West of the Mississippi River</b> , <b>DO NOT</b> apply more than 9.6 qts (9.6 lbs active ingredient) per acre per year. Maximum applications per year:6 Single maximum application rate is 1.6 qts/A (1.6 lbs ai) <b>East of the Mississippi River</b> , <b>DO NOT</b> apply more than 14.4 qts (14.4 lbs active ingredient) per acre per year

				<p>Single maximum application rate is 2.4 qts/A (2.4 lbs ai) Maximum applications per year:6</p> <p>Minimum retreatment interval is 7 days.</p> <p><b>DO NOT</b> apply this product with a U-boom device</p> <p>PHI: 7 days</p>
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Potatoes	Early Blight Late Blight	0.4 to 1.6 qts/A  (0.4 to 1.6 lbs ai/A)	<p>Begin applications when plants are 4 to 6 inches high by applying 0.4 to 0.8 qts. /A.</p> <p>As the vines increase in size, apply 0.6 to 0.8 qts/A at 3 to 5 day intervals; or apply 1.2 to 1.6 qts. /A at 5 to 10 day intervals.</p> <p>A spreader sticker may be used for better coverage and weatherability.</p> <p>It is advised that this product be used within an Integrated Pest Management Program. Also, vine kill need to occur 14 days before harvest.</p>	<p><b>DO NOT</b> apply more than 11.2 qts. (11.2 lbs. active ingredient) per acre per year.</p> <p>Single maximum application rate is 1.6 qts/A (1.6 lbs ai)</p> <p>Maximum applications per year:7</p> <p>Minimum RTI: 3 PHI Connecticut, Delaware, Florida, Maine, Massachusetts, Michigan, New Hampshire, New York, Ohio, Pennsylvania, Rhode Island, Vermont and Wisconsin: 3 days PHI All Other States: 14 days</p>
Tomatoes	Anthracnose Early Blight Gray Leaf Mold Gray Leaf Spot Late Blight Septoria Leaf Spot Bacterial Speck and Spot	<p><b>East of the Mississippi River</b></p> <p>0.6 to 2.4 qts/A  (0.6 to 2.4 lbs ai/A)</p>	<p><b>East of the Mississippi</b></p> <p>Start applications when seedlings emerge or transplants are set.</p> <p>Repeat applications of 0.6 to 1.2 qts/A at 3- to 7- day intervals, or at 1.2 to 2.4 qts/A at 7- to 10- day intervals throughout the season.</p> <p>A spreader sticker may be used for better coverage and weatherability.</p>	<p><b>East of the Mississippi River, DO NOT</b> apply more than 16.8 qts. (16.8 lbs. active ingredient) per acre per year.</p> <p>Single maximum application rate is 2.4 qts/A (2.4 lbs ai)</p> <p>Maximum applications per year:7</p> <p>Minimum RTI: 3 days for lower rate</p> <p>Minimum RTI: 7 days at higher rate</p> <p>PHI: 5 days</p>

	<p><b>West of the Mississippi River</b> 0.6 to 1.6 qts/A (0.6 to 1.6 lbs ai/A)</p>	<p><b>West of the Mississippi</b> Start applications when seedlings emerge or transplants are set.</p> <p>Repeat applications of 0.6 to 0.8 qts/A at 3- to 7- day intervals, or at 1.2 to 1.6 qts/A at 7- to 10- day intervals throughout the season. A spreader sticker may be used for better coverage and weatherability.</p> <p>Use of a full rate of a fixed copper fungicide in tank mix combination with a half to full rate of CH-MAN-1942. Follow the application intervals specified on the copper fungicide label.</p>	<p><b>West of the Mississippi River,</b> <b>DO NOT</b> apply more than 6.4 qts. (6.4 lbs. active ingredient) per acre per year.</p> <p>Single maximum application rate is 1.6 qts/A (1.6 lbs ai)</p> <p>Maximum applications per year:4</p> <p>Minimum RTI: 3 days for lower rate</p> <p>Minimum RTI: 7 days at higher rate</p> <p>PHI: 5 days</p>
Walnut	<p>Walnut Blight (<i>Xanthomonas campestris</i> pv. <i>Juglandis</i>)</p>	<p>1.8 qts./A (1.8 lbs ai/A)</p>	<p>Apply by ground in a minimum of 100 gallons water per acre, or by air in a minimum of 10 gallons water per acre. Begin applications at early pre-bloom prior to or when catkins are partially expanded. Make additional applications during bloom and early nutlet stage, or as needed if frequent rainfall occurs.</p> <p><b>DO NOT</b> apply through any irrigation system. The reapplication interval is 7-10 days.</p> <p><b>DO NOT</b> apply more than 18 quarts (18 lbs active ingredient) per acre per use year.</p> <p>This product must be tank mixed with a fixed copper product (such as Cuprofix Ultra 40 Disperss, EPA Reg. No. 70506-201) which is registered for use on walnuts.</p> <p>PHI: 75 days</p> <p>Single maximum application rate is 1.8 qts/A (1.8 lbs ai)</p> <p>Maximum number of</p>

				applications per year is 10.
Broccoli	Alternaria Leaf Spot Downy Mildew	1.2 to 1.6 qts/A (1.2 to 1.6 lbs ai/A)	In plant beds or direct-seeded fields, apply 7 to 10 days after planting or earlier if disease is present. If field applications, apply as soon as disease is present and repeat applications at 7- to 10-day intervals.	<p><b>DO NOT</b> apply more than 9.6 qts (9.6 lbs active ingredient) per acre per year.</p> <p><b>DO NOT</b> apply this product with a U-boom device.</p> <p>Minimum retreatment interval is 7 days.</p> <p>Single maximum application rate is 1.6 qts/A (1.6 lbs ai)</p> <p>Maximum applications per year:6</p> <p>PHI: 7 days</p>

CROPS	DISEASES	Rate Per Application Qts. /A.	DIRECTIONS	RESTRICTIONS
Corn, field and hybrid seed corn	Common Corn Rust Gray Leaf Spot Helmitho- sporium Leaf Blight	0.8 to 1.2 qts/A (0.8 to 1.2 lbs ai/A)	Start applications when disease symptoms first appear and, depending on severity of infection, continue on a 4- to 14-day schedule. A spreader sticker may be used for better coverage and weatherability.	<b>DO NOT</b> apply more than 12 qts. (12 lbs. active ingredient) per acre per year. Single maximum application rate is 1.2 qts/A (1.2 lbs ai) Maximum applications per year: 10 Minimum RTI: 4 PHI: 40 days
Peanuts	Cercospora Leaf Spot Rust	0.8 to 1.6 qts/A (0.8 to 1.6 lbs ai/A)	Start applications when disease first appears or is reported in area. Repeat sprays at 7- to 14-day intervals, using shorter interval during humid weather.	<b>DO NOT</b> apply more than 12.8 qts. (12.8 lbs. active ingredient) per acre per crop. <b>DO NOT</b> feed treated vines to livestock. Single maximum application rate is 1.6 qts/A (1.6 lbs ai) Maximum applications per year: 8 Minimum RTI: 7 PHI: 14 days
Peanuts (tank-mix with Thiophan age- Methyl fungicide)	Ascochyta Web Blotch Cercospora Leaf Spot Limb Rot Rust	1.2 qts/A. (1.2 lbs ai/A) CH-MAN-1942 plus Thiophanate- Methyl fungicide	Begin applications when disease first appears and repeat at 7- to 14-day intervals, using shorter interval during humid weather.	<b>DO NOT</b> apply more than 12.8 qts. (12.8 lbs. active ingredient ) per acre per year. <b>DO NOT</b> feed treated vines to livestock. PHI: 14 days Single maximum application rate is 1.2 qts/A (1.2 lbs

CROPS	DISEASES	Rate Per Application Qts. /A.	DIRECTIONS	RESTRICTIONS
				ai) Maximum applications per year:10 Minimum RTI: 7
Sugar Beets	Cercospora Leaf Spot Rust	1.2 to 1.6 qts/A (1.2 to 1.6 lbs ai/A)	Start applications when disease first threatens and repeat every 7 to 10 days as needed. A spreader sticker may be used for better coverage and weatherability.	<b>DO NOT</b> apply more than 11.2 qts. (11.2 lbs. active ingredient) per acre per crop per year. <b>DO NOT</b> feed treated tops to livestock. Single maximum application rate is 1.6 qts/A (1.6 lbs ai) Maximum applications per year: 7 Minimum RTI: 7 PHI: 14 days
Cereals Wheat, Triticale, Barley, Oats, Rye	Helminthosporium Leaf Spot Leaf Rust Septoria Glume Blotch Septoria Leaf Spot Tan Spot Scab*	0.8 to 1.6 qts/A (0.8 to 1.6 lbs ai/A)	Start applications at onset of disease or when plants are in the tillering to jointing stage and repeat at 7- to 10-day intervals. A spreader sticker may be used for better coverage and weatherability.	<b>DO NOT</b> apply more than 4.8 qts (4.8 lbs active ingredient) per acre per crop per year. Maximum number of applications per year is 3. <b>DO NOT</b> apply after Feekes' growth stage 10.5 or heading and within PHI. <b>DO NOT</b> graze livestock in treated areas prior to harvest. Single maximum application rate is 1.6 qts/A (1.6 lbs ai) Maximum applications per year: 3 Minimum RTI: 7

CROPS	DISEASES	Rate Per Application Qts. /A.	DIRECTIONS	RESTRICTIONS
				<p>PHI in California: 46 days.</p> <p>PHI All Other States: 26 days</p> <p>*Scab control on wheat only in California</p>

### **SEED TREATMENT-**

Seeds to be treated must be cleaned and well-cured prior to treatment. CH-MAN-1942 may be applied to dry seed with conventional slurry or mist seed treating equipment or as a planter-box application. For best results, the seed must be completely and uniformly covered with fungicide.

**USE RESTRICTION:** When using formulations that do not contain dye, to comply with 40 CFR 153.155, all seed treated with an economic poison must be colored to distinguish and prevent subsequent inadvertent use as a food for man or feed for animals.

#### Seed Bag Label Requirements

The Federal Seed Act requires that containers containing treated seeds shall be labeled with the following statements: This seed has been treated with mancozeb fungicide.

**DO NOT** use treated seed for feed, food or oil purposes.

The US Environmental Protection Agency requires the following statements on containers containing seed treated with mancozeb:

- When opening this bag or loading/pouring the treated seed/seed pieces, wear long-sleeved shirt, long pants, shoes, socks, chemical-resistant gloves, and a NIOSH-approved particulate filtering facepiece respirator with any N, R, or P filter; OR a NIOSH-approved elastomeric particulate respirator with any N, R, or P filter; OR a NIOSH-approved powered air-purifying respirator with an HE filter. After the seeds/seedpieces have been planted, **DO NOT** enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 24 hours. Exception: Once the seeds are planted in soil or other planting media, the Worker Protection Standard allows workers to enter the treated area without restriction if there will be no worker contact with the soil media subsurface.
- Treated seeds exposed on soil surface may be hazardous to wildlife. Cover or collect treated seeds spilled during loading and planting.
  - Store treated seed away from food and feedstuffs.
  - Dispose of all excess treated seed by burying seed away from bodies of water.
  - Dispose of seed packaging or containers in accordance with local requirements.
  - **DO NOT** contaminate bodies of water when disposing of planting equipment wash water.
  - After the seeds have been planted, **DO NOT** enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours. Exception: Once the seeds are planted in soil or other planting media, the Worker Protection Standard allows

- workers to enter the treated area without restriction if there will be no worker contact with the soil/media subsurface.
- Excess treated seed may be used for ethanol production only if (1) by-products are not used for livestock feed and (2) no measurable residues of pesticide remain in ethanol by-products that are used in agronomic practice." **DO NOT** allow children, pets or livestock to have access to treated seeds.

## SEED TREATMENT

CROP	DISEASES	Rate CH-MAN-1942 Per Application		APPLICATION INSTRUCTIONS
			Fl. Oz./100 lbs.	
Corn (field)	Damping-off Seed Rots Seedling blights		4.3 to 8.6 fl oz/100 LBS (0.134 to 0.268 lb ai/cwt)	
Cotton (acid delinted) (reginned)	Damping-off Seedling Blights		4.8 fl oz/100 LBS (0.15 lb ai/cwt)	
	Damping-off Seedling Blight		9.6 fl oz/100 LBS (0.3 lb ai/cwt)	
Flax	Damping-off Seed Rots Seedling Blights		5.7 to 11.3 fl oz/100 LBS (0.178 to 0.353 lb ai/cwt)	
Peanuts (shelled)	Damping-off Seed Rots Seedling Blights		12.8 to 25.6 fl oz/100 LBS (0.4 to 0.8 lb ai/cwt)	
Potato Seedpiece Treatment	Fusarium Decay Late Blight Seedborne Common Scab Rhizoctonia Shoot Blight Silver Scurf		1.6 to 2.5 fl oz/100 LBS. (0.05 to 0.078 lb ai/cwt)	<b>DO NOT</b> use treated seed potatoes for food or feed purposes.
Rice	Damping-off Seed Rots Seedling Blights		3.2 to 6.4 fl oz/100 LBS (0.1 to 0.2 lb ai/cwt)	Apply before, during or after soaking in water.
Safflower	Seedborne Rust ( <i>Puccinia</i> <i>carthami</i> )		3.2 fl oz/100 LBS (0.1 lb ai/cwt)	

CROP	DISEASES	Rate CH-MAN-1942 Per Application		APPLICATION INSTRUCTIONS
			Fl. Oz./100 lbs.	
Sorghum	Covered Kernel Smut Damping-off Seed Rots Seedling Blights		4.3 to 7.2 fl oz/100 LBS (0.134 to 0.224 lb ai/cwt)	
Tomatoes	Damping-off Seed Rots Seedling Blights		12.8 fl oz/100 LBS (0.4 lb ai/cwt)	

## MISCELLANEOUS

CROP	DISEASES	Rate CH-MAN- 1942 Per Application Qts. /A.	APPLICATION INSTRUCTIONS (Also Refer to Directions For Use)
Asparagus crowns (planting stock)	Crown Rot	0.8 qts. per 100 gals. (0.8 lb ai/A)	<p>Place loosely packed crowns into burlap bag and soak, with gentle agitation, in the fungicide solution for 5 minutes. Remove bag, drain well, and plant crowns as soon as possible.</p> <p>A tank large enough to hold a single burlap bag will treat 2 bags of crowns. Clean dipping suspension must then be prepared in a clean tank. Dirty crowns must be pre-washed to remove excess soil.</p> <p>Not registered for use by California.</p>
Caprifig	Assorted Molds Endosepsis (Fusarium)	0.8 qts. per 25 gals. (0.8 lb ai/A)	<p>Prepare mamme figs by making a shallow cut through the eye and then hand dividing to avoid wasp injury. Submerge mamme figs in the fungicide suspension for a minimum of 15 minutes.</p> <p>The fungicide suspension must be stirred frequently to prevent settling out.</p> <p>Fresh dipping solution must be used after treating 4 or 5 batches of figs.</p> <p>After treatment, figs must be drained prior to placement in trees.</p>
Christmas Trees (Conifer)	Lophodermium Needle Cast Pine Gall Rust Scirrhia Brown Spot	1.6 qts. To 3.2 qts. (1.6 to 3.2 lb ai/A)	Begin application in spring or early summer before infection occurs. Repeat after heavy rains and at two-week intervals as long as needed.
Douglas Fir	Swiss Needle Cast		

**TURF - COMMERCIAL SOD FARMS - Not for residential use.**

**DO NOT** apply by air to sod farms.

There is a minimum of a 10-day interval between applications.

Start applications when grass greens-up in spring or when disease first appears, and repeat at a minimum of 10 to 14 day intervals or until disease threat is past. When conditions are especially favorable for disease development, apply maximum fungicide use rate on a 10-day spray schedule. Apply in sufficient water to provide adequate coverage.

Harvesting of treated turf is prohibited until 120 hours (5-days) following application. There is a limit of 4 applications per year and a maximum rate of 17.4 lbs active ingredient/A (17.4 qts CH-MAN-1942) per application.

**TURF TOLERANCE** - Treated turfgrass must be maintained in a vigorous growing condition. Turfgrass under stress will not respond to fungicide treatments as well as well-maintained turfgrass. Turfgrass tolerance to this product has been found to be acceptable, however, this product and tank mixtures with other products have not been tested on all varieties of every turfgrass species or under all possible growing conditions. If user is unfamiliar with the performance of CH-MAN-1942 or tank mixtures, under user growing conditions, a limited area of turfgrass must be treated prior to initiating large-scale applications. The user must always exercise reasonable judgment and caution when using this product.

CROP	DISEASES	RATE PER APPLI- CATION	APPLICATION INSTRUCTIONS	RESTRICTIONS
		Fluid Ounces /1000 sq. ft.		
Assorted Grasses	Helmintho-sporium Melting-out Rust (Leaf, Stem Stripe)	6.4 fl oz (8.7 lb ai/A)		<b>DO NOT</b> graze treated areas.  <b>DO NOT</b> use on grasses intended for grazing, such as range or pasture grasses.
	Copper Spot Fusarium Blight Red Thread Slime Mold	6.4 to 12.8 fl oz. (8.7 to 17.4 lb ai/A)		<b>DO NOT</b> feed clippings to livestock.
	Algae	9.6 fl oz. (13.1 lb ai/A)		<b>DO NOT</b> use on grasses grown for seed.
	Dollar Spot	9.6 to 12.8 fl oz. (13.1 to 17.4 lb ai/A)		Single maximum use rate: 12.8 fl oz (17.4 lb ai/A)
	Rhizoctonia Brown Patch	6.4 fl oz. (8.7 lb ai/A)	Apply on a 7-day spray schedule.	Maximum number of applications: 4 per year Maximum rate per year based on 4 applications: 51.2 fl oz (69.6 lb ai/A) Minimum RTI: 10 days PHI: 5 days
	Pythium Blight	12.8 fl oz. (17.4 lb ai/A)	Apply at 5-day intervals, or more frequently, if conditions are especially favorable for disease development.	
	Fusarium Snow Mold	9.6 to 12.8 fl oz. (13.1 to 17.4 lb ai/A)	Apply at 2- to 6-week intervals during winter.	

## GRASSES – TURF USE

**Not for residential use.**

### RESTRICTIONS:

- **DO NOT** apply by air to golf courses.
- **DO NOT** apply by chemigation application to golf courses.
- **DO NOT** apply to residential turf or athletic fields.
- Limit to a maximum of 4 applications per year and a maximum application rate of 17.4 lb ai/A per application for turf except golf course turf.
- The minimum retreatment interval is 10 days between applications.

### Golf Courses

When treating golf greens, always treat aprons and approaches. There is a minimum of a 10-day interval between applications.

**Cool Season grasses; greens, tees and aprons:** Maximum of 5 applications per year at a maximum application rate of 17.4lbs active ingredient/A (4.35 gallons CH-MAN-1942) per application.

**Cool Season grasses; fairways:** Maximum of 4 applications per year at a maximum application rate of 17.4lbs active ingredient/A (4.35 gallons CH-MAN-1942) per application.

**Warm Season Grasses; greens, tees, and aprons:** Maximum of 4 applications per year at a maximum application rate of 17.4lbs active ingredient/A (4.35 gallons CH-MAN-1942) per application.

**Warm Season Grasses; fairways:** Maximum of 3 applications per year at a maximum application rate of 17.4lbs active ingredient/A (4.35 gallons CH-MAN-1942) per application.

### All Other Turf

There is a maximum of 4 applications per year with a maximum application rate of 17.4 lbs active ingredient/A (4.35 gallons CH-MAN-1942) per application. There is a minimum of a 10-day interval between applications.

CROP	DISEASES	Rate CH-MAN-1942 Per Application	APPLICATION INSTRUCTIONS	RESTRICTIONS
		Fluid Ounces/1000 sq.ft.		
Golf course turf, industrial turf or municipal turf use. <b>NOT FOR RESIDENTIAL OR ATHLETIC FIELD TURF USE.</b>	Algae	9.6 fl oz. (13.1 lb ai/A)	Begin when algae begin to appear and repeat on a 10 day interval.	<b>DO NOT</b> use on grasses grown for seed.  <b>DO NOT</b> use on grasses intended for grazing, such as range or pasture grasses.
	Copper Spot, Fusarium Blight (F. Roseum), Red Thread, Slime Molds	6.4-12.8 fl oz. (8.7 to 17.4 lb ai/A)	Begin when grass greens up in spring and repeat on a 10 to 14 day interval	  <b>DO NOT</b> graze treated areas or feed clippings to livestock. Single maximum use rate: 12.8 fl oz
		9.6-12.8 fl oz. (13.1 to 17.4 lb ai/A)	Use during favorable disease conditions repeating applications on a 10 day spray schedule.	

CROP	DISEASES	Rate CH-MAN-1942 Per Application	APPLICATION INSTRUCTIONS	RESTRICTIONS  (17.4 lb ai/A) Maximum number of applications: 4 per year Maximum rate per year: 51.2 fl oz (69.6 lb ai/A) Minimum RTI: 10 days PHI: Not applicable
		Fluid Ounces/1000 sq.ft.		
	Gray Leaf Spot ( <i>Pyricularia grisea</i> )	9-12.8 fl oz. (13.1 to 17.4 lb ai/A)	Begin at first sign of disease; and repeat at 10 day intervals or more often during favorable disease conditions.	
	Dollar Spot ( <i>Sclerotinia</i> )	9.6-12.8 fl oz. (13.1 to 17.4 lb ai/A)	Begin when grass greens up in spring and repeat at 10 to 14 day intervals	
	Pink (Fusarium) Snow Mold	12.8 fl oz. (17.4 lb ai/A)	Use during favorable disease conditions repeating applications on a 10 day spray schedule	
		9.6-12.8 fl oz. (13.1 to 17.4 lb ai/A)	During winter apply before first snowfall and repeat on a 14 to 42 day interval.	
	Leaf Spot ( <i>Helminthosporium</i> spp.), Rhizoctonia Brown Patch	6.4 fl oz. (8.7 lb ai/A)	Begin when disease appears and repeat at 10 day intervals.	
		9.6-12.8 fl oz. (13.1 to 17.4 lb ai/A)	Use during favorable disease conditions and repeat at 10 day intervals	

CROP	DISEASES	Rate CH-MAN-1942 Per Application	APPLICATION INSTRUCTIONS	RESTRICTIONS
		Fluid Ounces/1000 sq.ft.		
	Pythium Blight	12.8 fl oz. (17.4 lb ai/A)	Begin at first sign of disease. Repeat at intervals of 10 days or more often during favorable disease conditions.	<b>DO NOT</b> use on grasses grown for seed.  <b>DO NOT</b> use on grasses intended for grazing, such as range or pasture grasses.
	Leaf Rust, Stem Rust, Stripe Rust	6.4 fl oz. (8.7 lb ai/A)	Begin when disease first appears and repeat at 10 day intervals	<b>DO NOT</b> graze treated areas or feed clippings to livestock.

#### INFORMATION FOR TURF & ORNAMENTAL USES

CH-MAN-1942 FLOWABLE FUNGICIDE is a flowable containing a coordination product of zinc ion and manganese ethylenebisdithiocarbamate and may be used as a spray for the control of many important plant diseases. When used according to directions, it provides very high fungicidal activity and can be safely used on both turf grasses and certain ornamentals.

CH-MAN-1942 FLOWABLE FUNGICIDE is a broad-spectrum protectant fungicide which provides control of most common turf grass diseases and it is also effective in controlling many fungal diseases of certain ornamentals.

Diseases of turf grass and ornamentals can attack suddenly and unexpectedly causing severe damage and may even result in total loss of large areas of valuable turf grass and ornamental plants. The use of a regular protective spray program will minimize the risk of disease damage and can be accomplished with lower rates and less frequent fungicide applications. Once diseases have become established, higher rates of fungicide and more frequent applications are required to bring them under control. Follow a regular protective program for maximum product performance.

#### INSTRUCTIONS FOR APPLICATION FOR TURF & ORNAMENTAL USES

The Directions for Use of this product given on this label reflect cumulative inputs from both field use experience and product testing programs. However, it is impossible to test this product on all ornamental plant species and cultivars. Eliminating all risks of usage associated with this product is not possible. Plant injury, non-performance, or other unanticipated results could occur due to use that is inconsistent with label directions or specific environmental conditions, as noted on the label. Abnormal environmental conditions such as excessive rain, storms or drought, use of other treatments, improper application techniques as well as many other factors that Cerexagri cannot control may result in lack of efficacy or compromise the performance of this product. All such risks are borne by the buyer.

Before treating any ornamental plant for prevention of infection from a listed pathogen, a

preliminary trial is suggested on a small scale before a full treatment is applied. Wait 5-7 days after treatment to evaluate results.

To mix: Slowly add CH-MAN-1942 FLOWABLE FUNGICIDE into half-filled spray tank while the agitator is running to form a well-mixed suspension. If tank-mixing with other materials, add soluble materials (those that form a true solution) first. Then add emulsifiable concentrates (those that form an emulsion in water) in that order after the CH-MAN-1942 FLOWABLE FUNGICIDE. Wettable powder products may be mixed at the same time as CH-MAN-1942 FLOWABLE FUNGICIDE. CH-MAN-1942 FLOWABLE FUNGICIDE is compatible with most commonly used pesticides. Read and observe the most restrictive precautionary statements and other information appearing on product labels used in mixtures.

For aerial application: Use at rate indicated in sufficient water for thorough coverage or a minimum of 2 gallons per acre. Use a spreader-sticker at label-specified rates for the desired use as needed. Add product slowly to water in the spray tank with agitation or premix thoroughly in separate holding tank for concentrate or aircraft sprayers. Follow similar mixing order instructions as stated above for best results. Continuous agitation is required to keep the product in suspension.

**HORTICULTURAL APPLICATIONS**  
**FIELD, NURSERY, GREENHOUSE and LANDSCAPE**  
**Not Registered for use by California**  
**Intended only for use by professional applicators on fruit trees.**

**Use Directions:** CH-MAN-1942 FLOWABLE FUNGICIDE provides excellent protective activity and is most effective when applied prior to infection periods.

Apply 1.2 qts CH-MAN-1942 per 100 gallons of water in full coverage sprays. To improve performance, add 2 - 4 oz of an effective spreader-sticker per 100 gallons of spray.

Begin spraying when plants are growing, well leafed out or at first sign of disease. Apply at 7-10 day intervals throughout the season. Contact your State Extension Service for additional information

**Cut Flowers and Greenhouse Grown Ornamentals:** limited to 20 applications per year.

**DO NOT** use for food or feed purposes. Intended for use by professional applicators. Not for use in residential greenhouses.

**RESTRICTIONS:**

- Maximum rate per year: 1.2 qts/100 gallon
- Single maximum application rate: 1.2 qts
- Minimum RTI: 7 days
- Maximum number of applications per year: 1
- PHI: Not applicable

CROP	DISEASES	APPLICATION INSTRUCTIONS
<b>ORNAMENTALS COMMERCIAL AND HOME GARDEN USE</b>		Refer to Use Instructions except when more specific directions are given for individual crops and diseases.
Abutilon	Alternaria, Cercospora, Cladosporium, Colletotrichum, Puccinia	
African Violet	Alternaria, Botrytis Blight	

CROP	DISEASES	APPLICATION INSTRUCTIONS
Ageratum	Alternaria, Sclerotium, Rhizoctonia, Puccinia, Botrytis Blight Rust	
Aglaonema	Alternaria	
Almond (ornamental)	Botrytis, Cladosporium, Coryneum, Gloeosporium, Monilinia, Leaf Spot	
Alyssum	Leaf Spot, Microsphaera alni	
Andromeda	Exobasidium, Rhytisma, Venturia	
Anthurium	Anthracnose, Spadix Rot, Colletotrichum, Gloeosporium	
Apple (ornamental) – <i>Malus</i> sp	Fabraea Leaf Spot, Rust, Scab, Alternaria, Cephalosporium, Colletotrichum, Coryneum, Elsinoe, Fusarium, Gloeosporium, Gymnosporangium, Helminthosporium, Leptosphaeria, Monilinia, Monochaetia, Mycosphaerella, Pestalotia, Venturia	
Arborvitae	Cercospora Blight, Alternaria, Botrytis, Coryneum, Lophodermium, Mycosphaerella, Pestalotia	
Areca Palm	Leaf Spot	
Ash	Cercospora, Cylindrosporium, Gloeosporium, Puccinia, Rhizoctonia, Sphaeropsis	
Ash, white	Anthracnose, Cylindrosporium Leaf Spot	
Ash, mountain	Entomosporium Leaf Spot, Guignardia Leaf Blotch, Gymnosporangium	

CROP	DISEASES	APPLICATION INSTRUCTIONS
Aster	Leaf Spot, Alternaria, Ascochyta, Botrytis, Colletotrichum, Fusarium, Phomopsis, Phyllosticta, Puccinia, Ramularia, Rhizoctonia, Septoria, Uromyces	
Aster, perennial	Puccinia Rusts	
Aucuba, japonica	Alternaria Leaf Spot, Anthracnose, Cercospora, Gloeosporium, Phomopsis, Phyllosticta	
Azalea	Cylindocladium Rot Petal Blight Phytophthora Twig and Bud Blight Alternaria, Botrytis, Cladosporium, Colletotrichum, Cylindrocladium, Ovulinia	Apply in full coverage spray 2 to 3 times a week, while flowers are opening. Direct spray into flowers and thoroughly spray ground under plants thoroughly.
Baby's Breath	Botrytis, Rhizoctonia	
Basswood	Cercospora, Phyllosticta	
Begonia	Botrytis Blight, Gloeosporium, Cercospora, Rhizoctonia	
Birch	Cylindrosporium, Gloeosporium, Glomerella, Melampsoridium, Taphrina	
Bougainvillea	Leaf Spot, Colletotrichum	
Boxwood	Leaf Spot, Fusarium, Volutella	
Buckeye	Cercospora, Glomerella, Guignardia, Monochaetia, Phyllosticta, Septoria, Taphrina	
Buffalo Berry	Cylindosporium Leaf Spot, Puccinia, Rhizoctonia, Septoria	
Camellia	Petal Blight, Botrytis, Cercospora, Elsinoe, Exobasidium, Glomerella, Pestalotia, Phomopsis, Phyllosticta	Apply in full coverage spray 2 to 3 times a week, while flowers are opening. Direct spray into flowers and thoroughly spray ground under plants thoroughly.

CROP	DISEASES	APPLICATION INSTRUCTIONS
Carnation	Rust Septoria Leaf Spot, Alternaria, Botrytis, Cladosporium, Colletotrichum, Fusarium, Helminthosporium, Stemphylium, Uromyces	
Catalpa	Alternaria, Cercospora, Gloeosporium, Phomopsis, Rhizoctonia	
Cedar, Red	Cercospora Blight, Phomopsis Blight, Lophodermium, Gymnosporangium	
Cherry, ornamental	Alternaria, Cercospora, Cladosporium, Coccomyces, Coryneum, Fusicladium, Monilinia, Phomopsis, Phyllosticta, Taphrina	
Chinese Evergreen	Colletotrichum, Gloeosporium	
Christmas Cactus	Alternaria, Cercospora, Colletotrichum, Fusarium, Phomopsis	
Chrysanthemum	Ascochyta Blight, Botrytis Petal Spot, Rust, Alternaria, Bipolaris, Cercospora, Cylindrosporium, Helminthosporium, Phyllosticta, Septoria, Stemphylium	Apply in full coverage spray. Apply twice weekly during the blooming season.
Cockscomb (Celosia)	Alternaria Leaf Spot, Cercospora	
Coleus	Alternaria, Cercospora	
Columbine	Ascochyta, Botrytis, Cercospora, Puccinia, Rhizoctonia, Septoria	
Conifers (Christmas Trees)	Lophodermium NeedleCast, 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	
Cotoneaster	Cercospora, Phyllosticta, Venturia	

CROP	DISEASES	APPLICATION INSTRUCTIONS
Crabapple (ornamental)	Cedar Apple Rust, Scab. Sphaeropsis Leaf Spot, Gymnosporangium, Marssonina, Phyllosticta, Septoria, Venturia	
Crepe Myrtle	Cercospora, Phomopsis, Phyllosticta	
Croton	Gloeosporium	
Cuphea (Mexican heather)	Gloeosporium, Rhizoctonia	
Cyclamen	Botrytis, Cladosporium, Fusarium, Glomerella, Phyllosticta, Ramularia	
Cypress, Arizona	Cercospora Blight Monochaetia Canker, Coryneum, Fusarium, Gymnosporangium, Lophodermium, Pestalotia, Phomopsis	
Dahlia	Botrytis Blight, Alternaria, Fusarium, Rhizoctonia	
Daisy	Botrytis, Cercospora, Whetzelia	
Daisy, Shasta	Cylindrosporium, Fusarium, Septoria	
Daisy, Transvall	Alternaria, Botrytis, Gloeosporium	
Daylily	Alternaria, Botrytis, Cercospora, Colletotrichum, Elsinnoe, Phyllosticta, Septoria	
Delphinium	Botrytis Blight, Ascochyta, Cercospora, Diaporthe, Fusarium, Phyllosticta, Puccinia, Ramularia, Septoria, Volutella	
Dieffenbachia	Leptosphaeria Brown Spot, Cephalosporium, Colletotrichum, Gloeosporium, Glomerella	
Dogwood, flowering	Anthracnose Elsinoe Leaf Spot Septoria Leaf Spot, Ascochyta, Botrytis, Cercospora, Colletotrichum, Phyllosticta	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.

CROP	DISEASES	APPLICATION INSTRUCTIONS
Dracaena	Fusarium Leaf Spot, Alternaria, Cercospora, Colletotrichum, Phyllosticta	
Dusty Miller	Fusarium, Puccinia	
Elm	Black Leaf Spot, Botryosphaeria, Cephalosporium, Cercospora, Coryneum, Cylindrosporium, Fusarium, Gloeosporium, Monochaetia, Mycosphaerella, Phomopsis, Phyllosticta, Rhizoctonia, Sphaeropsis, Taphrina	
Euonymus	Anthracnose, Cercospora, Colletotrichum, Gloeosporium, Marssonina, Ramularia, Septoria, Whetzelinia	
Fatsia	Anthracnose, Alternaria, Cercospora, Colletotrichum, Phyllosticta	
Ferns	Rhizoctonia Blight, Botrytis, Cercospora, Curvularia, Cylindrosporium, Glomerella, Phyllosticta, Taphrina	. Begin spraying when plants are growing, well leafed out or at first sign of disease. Apply at 7-10 day intervals throughout the season. Contact your State Extension Service for additional information
	Anthracnose	Apply at 7-10 day intervals as needed through chemigation or air blast spray to thoroughly wet the entire plant canopy. CH-MAN-1942 may be tank mixed with other systemic products as guided by the local extension services for enhanced control.
Ficus	Cercospora Leaf Spot, Alternaria, Ascochyta, Cephalosporium, Cladosporium, Colletotrichum, Fusarium, Gloeosporium, Glomerella, Mycosphaerella, Phomopsis, Stemphylium	

CROP	DISEASES	APPLICATION INSTRUCTIONS
Fig (ornamental)	Cylindrocladium Leaf Spot	
Fir (Abies)	Cephalosporium, Lophodermium, Melampsora, Phomopsis, Sphaeropsis	
Fir, Douglas	Swiss Needle Cast, Phaeocryptopus	
Fir, Frasier	Swiss Needle Cast, Phaeocryptopus	
Firethorn	Fusicladium Scab, Fusarium, Rhizoctonia	
Fittonia	Rhizoctonia	
Four-O'clock	Cercospora, Rhizoctonia	
Fuchsia	Botrytis Blight Rust, Phomopsis, Septoria	
Garden Balsam	Alternaria, Botrytis, Cercospora	
Gardenia	Alternaria, Botrytis, Diaporthe, Mycosphaerella, Pestalotia, Phomopsis, Phyllosticta, Rhizoctonia	
Geranium	Rust, Alternaria, Ascochyta, Bipolaris, Botrytis, Cercospora, Cylindrosporium, Helminthosporium, Puccinia, Ramularia, Rhizoctonia, Septoria, Uromyces, Venturia	
Gladiolus	Curvularia Leaf Spot Botrytis Blossom Blight, Alternaria, Cladosporium, Rhizoctonia, Septoria, Stemphylium	On flower spikes, use at 1½ pints per 100 gallons. Make weekly applications starting before diseases appear and increase to 2 or 3 applications per week during periods of heavy disease and during rainy weather. <b>DO NOT</b> exceed 0.6qts per 100 gal on flower spikes.
Gloxinia	Botrytis Blight, Colletotrichum	
Gold Dust Tree	Gloeosporium, Glomerella, Pestalotia, Phyllosticta	
Gomphrena	Cercospora	
Gypsophila	Botrytis Blight, Rhizoctonia	

CROP	DISEASES	APPLICATION INSTRUCTIONS
Hawthorn	Cedar Apple Rust, Fabraea Leaf Spot, Frogeye Leaf Spot, Hawthorn Rust, Scab, Cercospora, Cylindrosporium, Gymnosporangium, Moniliinia, Mycosphaerella, Phyllosticta, Septoria, Venturia	
Hemlock, Eastern (Tsuga)	Botrytis, Cylindrosporium, Melampsora, Rhizoctonia	
Hibiscus	Alternaria, Cercospora, Colletotrichum, Fusarium, Phyllosticta	
Hickory	Gnomonia Leaf Spot, Cercospora, Cladosporium, Elsinoe, Fusarium, Mycosphaerella, Pestalotia, Phyllosticta, Septoria	
Holly	Purple Spot, Phyllosticta	
Hollyhock	Anthracnose, Cercospora Leaf Spot, Puccinia Rust, Alternaria, Ascochyta, Colletotrichum, Septoria	
Honeysuckle	Herpobasidium Blight, Alternaria, Cercospora, Gloeosporium, Phyllosticta	
Horsechestnut	Alternaria Leaf Spot, Guignardia Leaf, Blotch, See Buckeye	
Hydrangea	Botrytis Blight, Cercospora Leaf Spot, Ascochyta, Colletotrichum, Phyllosticta, Rhizoctonia, Septoria	
Impatiens	Botrytis Blight, Cercospora, Phyllosticta, Rhizoctonia, Septoria	
Indian Hawthorn	Entomosporium	

CROP	DISEASES	APPLICATION INSTRUCTIONS
Iris	Didymellina Leaf Spot, Mycosphaerella Leaf Spot, Mystrosporium Ink Spot, Ascochyta, Botrytis, Cladosporium, Fusarium, Kabatiella, Phyllosticta, Puccinia, Rhizoctonia	
Ivy	Cladosporium, Colletotrichum, Glomerella, Phyllosticta, Ramularia, Rhizoctonia, Sphaeropsis	
Jade Plant	Gloeosporium, Phomopsis	
Juniper	Phomopsis Blight, Cercospora, Coryneum, Gymnosporangium, Lophodermium, Pestalotia, Stigmina	
Kalanchoe	Cercospora, Stemphylium	
Larkspur	Rust, See Delphinium	
Laurel, Cherry	Alternaria, Cercospora, Cocomyces, Monilinia, Phyllosticta, Septoria	
Laurel, Mountain	Cercospora Leaf Spot, Petal Blight, Mycosphaerella, Pestalotia, Phomopsis, Rhytisma, Septoria	Apply in full coverage spray 2 to 3 times a week, while flowers are opening. Direct spray into flowers and spray ground under plants thoroughly.
Lavender, Cotton	Septoria	
Ligustrum	Cercospora Leaf Spot	
Lilac	Botrytis, Cercospora, Cladosporium, Cylindrocladium, Gloeosporium	
Lily	Botrytis Blight, Cercospora, Cladosporium, Colletotrichum, Fusarium, Puccinia, Ramularia, Rhizoctonia	
Liriope	Alternaria, Cercospora, Colletotrichum, Leptothyrium	
Lobelia	Botrytis, Cercospora, Puccinia, Rhizoctonia, Septoria	

CROP	DISEASES	APPLICATION INSTRUCTIONS
Loquat	Colletotrichum, Fusicladium, Pestalotia, Phyllosticta, Septoria	
Magnolia	Gloeosporium Leaf Spot, Alternaria, Cercospora, Cladosporium, Colletotrichum, Glomerella, Rhizoctonia	
Mahonia	Cercospora, Cylindrocladium, Gloeosporium, Leptosphaeria, Phomopsis, Phyllosticta, Puccinia	
Maple	Alternaria Leaf Spot Phyllosticta Leaf Spot, Cercospora, Ciborinia, Fusarium, Marssonina, Monochaetia, Phopsis, Rhizoctonia, Rhytisma, Septoria, Sphaeropsis, Taphrina, Venturia	<b>DO NOT</b> use on Sugar maples intended for the production of maple syrup.
Myrtle	Cercospora, Glomerella, Pestalotia	
Nannyberry	Botrytis, Cercospora, Cladosporium, Helmintosporium, Monochaetia, Phomopsis, Phyllosticta, Ramularia	
Narcissus	Botrytis Blight (fire), Smoulder, Sclerotinia	
Nasturtium	Botrytis, Cercospora, Puccinia	
Nephthytis	Cephalosporium	
Nicotiana	Alternaria	
Nierembergia	Botrytis	
Oak	Actinopelt Leaf Spot, Taphrina, Leaf Blister, Cephalosporium, Cercospora, Cladosporium, Cronartium, Elsinoe, Fusarium, Gloeosporium, Gnomonia, Marssonina, Phyllosticta, Septoria, Venturia	

CROP	DISEASES	APPLICATION INSTRUCTIONS
Orchids	Botrytis Blossom Blight, Cercospora, Fusicladium, Mycosphaerella, Phyllosticta, Puccinia, Septoria	
Osmanthus	Alternaria, Cercospora, Colletotrichum, Phyllosticta	
Oxalis	Rust	
Palm, Areca	Alternaria, Cercospora, Colletotrichum, Phomopsis, Phyllosticta, Septoria	
Palm, Arenga	Cercospora, Colletotrichum, Cylindrocladium, Pestalotia, Phoma, Stigmina	
Palm, Cabbage	Fusarium, Gloeosporium, Pestalotia, Stigmina	
Palm, Coconut	Pestalotia	
Palm, Date	Alternaria, Fusarium, Helminthosporium, Pestalotia	
Palm, King	Alternaria, Fusarium, Helminthosporium, Pestalotia, Phomopsis	
Palm, Phoenix	Alternaria, Cercospora, Fusarium, Gloeosporium, Pestalotia, Phomopsis, Stigmina	
Palm, Queen	Glomerella, Septoria	
Palm, Royal	Alternaria, Cercospora, Colletotrichum, Helminthosporium	
Palm, Washington	Cercospora, Colletotrichum, Cylindrocladium, Pestalotia, Phoma, Stigmina	
Pansy	Anthracnose, Alternaria, Botrytis, Cercospora, Colletotrichum, Peronospora, Phyllosticta, Ramularia, Rhizoctonia	

CROP	DISEASES	APPLICATION INSTRUCTIONS
Peach	Cercospora, Cladosporium, Coryneum, Fusarium, Glomerella, Monilinia, Mycosphaerella, Phomopsis, Phyllosticta, Taphrina	
Pear (ornamental)	Fabraea Leaf Spot, Rust, Scab, Alternaria, Botrytis, Cercospora, Cladosporium, Coryneum, Elsinoe, Fusarium, Glomerella, Gymnosporangium, Helmintosporium, Monilinia, Mycosphaerella, Phomopsis, Phyllosticta, Venturia	
Peony	Phytophthora Blight, Botrytis Blight, Alternaria, Cercospora, Cladosporium, Gloeosporium, Phyllosticta, Septoria	Apply in early spring and early fall, drenching soil around plants as well as the foliage. Promptly destroy all infected plant parts.
Peperomia	Cercospora Leaf Spot, Colletotrichum, Gloeosporium, Rhizoctonia	
Petunia	Botrytis Blight, Cercospora, Puccinia, Rhizoctonia, Stemphylium	
Philodendron	Dactylaria Leaf Spot Phytophthora Leaf Spot, Colletotrichum, Gloeosporium	
Phlox	Leaf Spot, Ascochyta, Botrytis, Cercospora, Colletotrichum, Phyllosticta, Puccinia, Septoria, Ramularia, Stemphylium, Volutella	
Photinia (Red Tip)	Entomosporium Leaf Spot, Cercospora, Gloeosporium, Gymnosporangium, Lophodermium, Pestalotia, Phyllosticta, Septoria	
Pieris	Alternaria, Pestalotia, Phyllosticta, Rhytisma	

CROP	DISEASES	APPLICATION INSTRUCTIONS
Pilea	Alternaria, Botrytis, Cercospora, Colletotrichum, Helminthosporium, Phyllosticta	
Pine	Alternaria, Botrytis, Cronartium, Fusarium, Lophodermium, Monochaetia, Rhizoctonia, Septoria, Sirococcus	
Pine, Australilia	Cyclaneusma Needle Cast	
Pine, Norfolk Island	Botrytis, Colletotrichum, Cronartium, Cylindrocladium, Fusarium, Lophodermium, Pestalotia, Rhizoctonia, Septoria, Sirococcus	
Pine Scotch	Cyclaneusma Needle Cast, Gall Rust	
Pittosporium	Alternaria Leaf Spot, Cercospora, Gnomonia, Mycosphaerella, Phyllosticta, Rhizoctonia, Septoria	
Plane Tree	Cercospora, Gnomonia, Phyllosticta, Septoria	
Pleomele	Fusarium Leaf Spot	
Plum, Ornamental	Botrytis, Cercospora, Cladosporium, Cocomyces, Coryneum, Monilinia, Phyllosticta, Taphrina	
Poinsettia	Sphaceloma Scab, Botrytis, Cercospora, Fusarium, Uromyces	<b>DO NOT</b> exceed 1.2qts per 100 gallons.
Poplar	Rust, Cercospora, Ciborinia, Colletotrichum, Cylindrocladium, Fusarium, Marssonina, melampsora, Mycosphaerella, Phyllosticta, Septoria, Stigmina, Taphrina, Venturia	
Portulaca	Rhizoctonia	
Pothos	Rhizoctonia	
Prayer Plant	Alternaria, Drechslera, Glomerella, Puccinia	

CROP	DISEASES	APPLICATION INSTRUCTIONS
Primrose	Botrytis Blight, Alternaria, Colletotrichum, Mycosphaerella, Puccinia, Ramularia, Uromyces	
Privet	Cercospora, Glomerella, Phomopsis, Phyllosticta, Ramularia	
Protea	Botrytis Blight	
Pyracantha	Botrytis, Cercospora, Diplodia, Phomopsis, Phyllosticta, Sphaeropsis	
Quince, Flowering	Cercospora, Fabraea, Gymnosporangium, Septobasidium	
Quince – ornamental	Fabraea Leaf Spot, Rust, Scab	
Red Cedar, Western (Thuja)	Keithia or Didymascella	
Red Tip	See Photinia	
Redwood, Sequoia	Botrytis, Cercospora, Mycosphaerella, Pestalotia, Phomopsis	
Rhododendron	Cercospora Leaf Spot, Discosia Leaf Spot Petal Blight, Alternaria, Coryneum, Gloeosporium, Glomerella, Guignardia, Lophodermium, Mycosphaerella, Pestalotia, Phomopsis, Rhizoctonia, Septoria, Venturia	Apply in full coverage spray at 7-10 day intervals, while flowers are opening. Direct spray into flowers and thoroughly spray ground under bushes.
Rose	Black Spot, Cercospora Leaf Spot, Rust, Alternaria, Bipolaris, Botryosphaeria, Cladosporium, Cylindrocladium, Diplocarpon, Elsinoe, Gloeosporium, Helminthosporium, Leptosphaeria, Monochaetia, Mycosphaerella, Peronospora, Phyllosticta, Septoria	

CROP	DISEASES	APPLICATION INSTRUCTIONS
Rosemary	Rhizoctonia, Aerial Blight	
Russian Olive	Cercospora, Colletotrichum	
Sage	Cercospora, Peronospora, Puccinia, Ramularia, Rhizoctonia	
Salvia	Cercospora, Puccinia	
Santolina	Botrytis	
Senecio	Cercospora, Gloeosporium, Phyllosticta, Puccinia, Ramularia, Septoria	
Schefflera	Alternaria Blight	
Skunk bush, sumac	Cylindrosporium Leaf Spot	
Snake plant	Fusarium, Gloeosporium	
Snapdragons	Rust, Alternaria, Bipolaris, Botrytis, Cercospora, Colletotrichum, Drechslera, Fusarium, Helminthosporium, Peronospora, Phyllosticta, Puccinia, Rhizoctonia	
Spathiphyllum	Myrothecium Leaf Spot, Alternaria	
Spindle tree	See Euonymus	
Spiraea	Cylindrosporium	
Spruce	Ascochyta, Botrytis, Cladosporium, Lophodermium, Rhizoctonia	
Spurge	Cercospora, Melampsora, Puccinia	
Statice	Cercospora Frogeye, Alternaria, Ascochyta, Botrytis, Cercospora, Colletotrichum, Rhizoctonia, Uromyces	
Strawflower	Rust, Fusarium	
Sumac	Cercospora, Cladosporium, Fusarium, Phyllosticta, Septoria, Taphrina	
Sunflower, Ornamental	Alternaria, Puccinia	
Syngonium	Cephalosporium Leaf Spot, Erwinia, Fusarium	
Thorn Apple	Rust	
Tulip	Botrytis Blight (fire)	

CROP	DISEASES	APPLICATION INSTRUCTIONS
Venus Flytrap	Anthracnose, Colletotrichum	
Verbena	Alternaria, Ascochyta, Botrytis, Cercospora, Phyllosticta, Puccinia, Rhizoctonia, Septoria, Stemphylium	
Viburnum	Downy Mildew, Ramularia Leaf Spot, Botrytis, Cercospora, Cladosporium, Helmintosporium, Monochaetia, Phomopsis	
Walnut	Anthracnose, Cercospora, Cladosporium, Cylindrocladium, Cylindrosporium, Gnomonia	<b>DO NOT</b> use treated walnuts for food or feed purposes.
Willow	Ascochyta, Cercospora, Ciborinia, Cylindrosporium, Fuscladium, Gloeosporium, Marssonina, Melampsora, Phomopsis, Phyllosticta, Ramularia, Rhytisma, Septoria, Taphrina, Venturia	
Wisteria	Alternaria, Cercospora, Colletotrichum, Gloeosporium, Pestalotia	
Yucca	Cercospora, Cylindrosporium, Gloeosporium, Puccinia	
Zebra Plant	Alternaria, Cercospora, Colletotrichum	
Zinnia	Leaf Blight	

This product is not advised for the treatment of Marigolds due to highly variable plant responses.

**Application Instructions:** The Directions for Use of this product given on this label reflect cumulative inputs from both field use experience and product testing programs. However, it is impossible to test this product on all ornamental plant species and cultivars. Eliminating all risks of usage associated with this product is not possible. Plant injury, non-performance, or other unanticipated results could occur due to use that is inconsistent with label directions or specific environmental conditions, as noted on the label. Abnormal environmental conditions such as excessive rain, storms or drought, use of other treatments, improper application techniques as well as many other factors that United Phosphorus, Inc. cannot control may result in lack of

efficacy or compromise the performance of this product. To the extent consistent with applicable law all such risks are borne by the buyer.

Before treating any ornamental plant for prevention of infection from a listed pathogen, a preliminary trial is suggested on a small scale before a full treatment is applied. Wait 5-7 days after treatment to evaluate results.

## STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE:** Keep from freezing. Store in a cool, well-ventilated area, but not below 32°F. **DO NOT** allow to become overheated in storage. This may bring on chemical changes which will impair the fungicidal effectiveness of CH-MAN-1942. 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 HANDLING:**

Nonrefillable container. **DO NOT** reuse or refill this container. Clean container promptly after emptying.

*[for containers less than 5 gallons]* Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for alter use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

*[For containers greater than 5 gallons]* Triple rinse (or pressure rinse) as follows:

Triple Rinse: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container back on its end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use and disposal. Repeat this procedure two more times. Then offer for recycling or reconditioning if available, if reconditioning if available, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities. **DO NOT** cut or weld metal containers.

Pressure rinse: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after flow begins to drip. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Dike and contain the spill. Transfer liquid and solid diking material to separate containers for recovery or disposal. Flush contaminated area with a large amount of water to a chemical or sanitary sewer containing a settling pit. Remove contaminated clothing and wash affected skin areas with soap and water. Wash clothing before reuse. Keep the solids out of the municipal sewers and open bodies of water. Refer to Precautionary Statements.

## **IMPORTANT INFORMATION**

### **READ BEFORE USING PRODUCT**

#### **CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY**

**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product reflect the opinion of experts based on field use and tests, and must be followed carefully. It is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of CHEMAGCO LLC or Seller. Handling, storage, and use of the product by Buyer or User are beyond the control of CHEMAGCO LLC and Seller. To the extent consistent with applicable law, all such risks shall be assumed by Buyer and User, and Buyer and User agree to hold CHEMAGCO LLC and Seller harmless for any claims relating to such factors.

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