U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs Biopesticides and Pollution Prevention Division	EPA Reg. Number: <b>5905-566</b>	Date of Issuance
THINGLE PROTECTOR (7511C) 1200 Pennsylvania Avenue NW	Term of Issuance:	Uncondition
Washington, DC 20460 NOTICE OF PESTICIDE: <u>X</u> Registration <u>Cunder FIFRA, as amended</u>		oduct: 0210-A 3R & Fungicide
Name and Address of Registrant (include ZIP Code):		
James M. Wagner Regulatory Consultant for Helena Chemical Company SynTech Global, LLC. P.O. Box 640 Hockessin, Delaware 19707		· · ·
Note: Changes in labeling differing in substance from that accepted in connection w and accepted by the Biopesticides and Pollution Prevention Division prior to use of t 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	s hereby registered/ren	egistered under ti
Federal Insecticide, Fungicide and Rodenticide Act. Registration is in no way to be construed as an endorsement or recommendation of protect health and the environment, the Administrator, on his motion, may at any tim	me suspend or cancel th	ne registration of a
Registration is in no way to be construed as an endorsement or recommendation of	ne suspend or cancel ti h the registration of a r le or to its use if it has b	ne registration of a product under this peen covered by
Registration is in no way to be construed as an endorsement or recommendation of protect health and the environment, the Administrator, on his motion, may at any the pesticide in accordance with the Act. The acceptance of any name in connection wit Act is not to be construed as giving the registrant a right to exclusive use of the namo thers.	ne suspend or cancel th h the registration of a p le or to its use if it has b lec. 3(c)(5) provided of your product un	he registration of a product under this been covered by d you: der FIFRA
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## HM-0210-A

#### SYSTEMIC /PGR & FUNGICIDE:

FOR NUT, POD, FRUIT SET AS WELL AS RIPENING AND FOR EFFECTIVE CONTROL OF VARIOUS PLANT DISEASES INCLUDING BLACK SPOT OR SCAB IN APPLE, ROOT ROT IN AVOCADO, BUD ROT AND NUT FALL IN COCUNUT, ROOT ROT IN CITRUS AND CUCURBITS, DOWNY MILDEW IN CUCURBITS, GRAPE, LETTTUCE, AND ONIONS, ANTHRACNOSE IN MANGO, ROOT AND HEART ROT IN PINEAPPLE, LATE BLIGHT IN POTATO, ROOT AND COLLAR ROT IN STONEFRUIT, LEATHER ROT AND PHYTOPHTHORA DISEASES IN STRAWBERRY, LATE BLIGHT IN TOMATO, DOWNEY MILDEW, PHYTOPHRA & PYTHIUM IN ORNAMENTALS & BEDDING PLANTS, PHYTOPHTHORA IN CONIFERS, PYTHIUM IN TURF, AND PYTOPTHORA AND PYTHIUM DISEASES ASSOCIATED WITH STEM AND CANKER BLIGHT (SUDDEN OAK DEATH) AND GENERAL BEECH DECLINE.

#### **ACTIVE INGREIDENTS:**

Mono-and di-potassium salts of Phosphore	us Acid*	56.00 %
Indole -3-butyric Acid	••••	0.0139%
OTHER INGREDIENTS		
ΤΟΤΑΙ		100.0%

\*Contains 6.87 lbs/gallon of the active ingredients, mono- and di-potassium salts of Phosphorus Acid. Equivalent to 5.67 lbs Phosphorus Acid/gallon.

## KEEP OUT OF REACH OF CHILDREN

## CAUTION

#### PRECAUTIONARY STATEMENTS Hazards to Humans & Domestic Animals CAUTION

Harmful if swallowed, inhaled or absorbed through skin. Avoid breathing vapors or spray mist. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling, and before eating, chewing gum or using tobacco. Remove contaminated clothing and wash clothing before reuse.

## FIRST AID

#### IF SWALLOWED:

· Call a poison control center or doctor immediately for treatment advice.

- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to by a poison control center or doctor.
- Do not give anything to an unconscious person.

#### IF ON EYES:

 Hold eye open and rinse slowly and gently with water for 15-20 minutes.

• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.

· Call a poison control center or doctor for treatment advice.

#### IF ON SKIN OR CLOTHING:

• Take off contaminated clothing.

· Rinse skin immediately with plenty of water for 15-20 minutes.

· Call a poison control center or doctor for treatment advice.

#### **IF INHALED:**

• Move person to fresh air.

• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.

· Call a poison control center or doctor for further treatment advice.

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-800-424-9300 for emergency medical treatment information.

SEE INSIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

## EPA REG. NO. 5905- EPA EST. NO.

SN\_\_\_\_

## MANUFACTURED BY

HELENA CHEMICAL COMPANY

#### 225 SCHILLING BOULEVARD, SUITE 300 COLLIERVILLE, TN 38017

#### PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear. Long-sleeved shirt and long pants, shoes plus socks, protective eyewear, and waterproof gloves.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for maintaining/cleaning personal protective equipment (PPE). If no such instructions for washables, use hot water and detergent. Keep and wash PPE separately from other laundry. 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.

#### **User Safety Recommendations**

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove PPE clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Users should 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

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

#### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with it 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 (REI). 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 workers entry into treated areas during the restricted entry interval of 4 hours. 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:

Long-sleeved shirt and long pants, waterproof gloves, shoes plus socks and protective eyewear.

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

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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 product agricultural plants on farms, forests, nurseries, or greenhouses. Keep unprotected persons out of treated areas until sprays have dried.

#### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read entire label before using this product.

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 regulations.

#### APPLICATION THROUGH SPRINKLER IRRIGATION SYSTEMS

Use of HM-0210-A through chemigation is not permitted in California.

Apply this product through drip, microjet, solid set and center pivot sprinkler irrigation systems. Do not apply this product through any other type of irrigation system.

**PREPARATION OF INJECTION EQUIPMENT:** Remove pesticide, scale residues and other foreign matter from the chemical tank and entire injection system. Flush with clean water.

APPLICATION INSTRUCTIONS: Fill tank with one half to three quarters the desired amount of water. Start hydraulic or mechanical agitation. Add the required amount of HM-0210-A then the remaining volume of water. Set sprinkler to deliver 0.1 to 0.3 inch of water per acre. Start sprinkler and uniformly inject the solution of HM-0210-A into the irrigation water line so as to deliver the rate per acre. Inject the HM-0210-A solution with a

positive displacement pump into the main line before a right angle turn to ensure adequate mixing. For other questions about calibration, contact equipment manufacturers, State Extension Service specialists or other experts. **NOTE: For Microjet and Drip Irrigation Systems:** After treatment with **HM-0210-A** has been completed, avoid further irrigation or the treated area for 24 hours to 48 hours.

For Solid Set and Center Pivot Irrigation Systems: After treatment with HM-0210-A has been completed, avoid further irrigation of the treated area until foliage is dry to prevent washing the chemical off the crop.

#### **GENERAL PRECAUTIONS FOR APPLICATION THROUGH SPRINKLER IRRIGATION SYSTEMS**

If you have any questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.

Maintain continuous agitation in mix tank during mixing and application to assure solution uniformly. The irrigation 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. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back towards 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 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. 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. 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, when system connection or fittings leak, when nozzles do not provide uniform distribution or when lines containing the product must be dismantled and drained. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop may result from non-uniform distribution of chemigation water.

Allow sufficient time fore pesticide to be flushed through all lines and nozzles before turning off irrigation water. A person knowledgeable in chemigation system and responsible for its operation shall shut down and adjust the system as needed.

Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the label-prescribed safety devices for public water supplies are in place.

#### GENERAL APPLICATION INSTRUCTIONS

HM-0210-A may be applied by various application methods, including foliar spray, soil drench, soil incorporation and bare root dip. For foliar sprays, apply HM-0210-A with sufficient water volumes for adequate coverage of foliage, according to crop and growth stage. To ensure good coverage, spray to wetness, but avoid run-off.

#### MIXING INSTRUCTIONS

- 1. Fill the spray tank with  $\frac{1}{4} \frac{1}{2}$  of the volume of water required before adding HM-0210-A.
- 2. Add **HM-0210-A** slowly to the tank and agitate by mechanical or hydraulic means.
- 3. Continue agitating as tank fills with water to the desired volume.
- 4. Maintain agitation during application.

#### COMPATIBILITY

**HM-0210-A** is compatible with most products used in agriculture. However, individual crop sensitivity to these mixtures may vary. Mixtures of **HM-0210-A** with some foliar fertilizers and copper products may not be compatible or may cause phytotoxicity to some plants. If these combinations or others have not been used previously, do not tank mix without first testing the compatibility of the tank mix. Do not apply tank mixture without first assessing its safety to the crop (phytotoxicity).

Due to HM-0210-A acidic nature, the use of acidifying-type compatibility agents are not recommended. If spray adjuvants are used they must be tested before use to confirm compatibility with HM-0210-A.

A jar test should be used to confirm compatibility with **HM-0210-A** in a clean jar using the same water source that is normally used to fill spray tank, add the same proportions of each product and the appropriate quantity of water and mix thoroughly. Let stand for 3 minutes. If mixture remains in solution or can be remixed readily the tank mix is compatible. The solution that resulted from the above compatibility test should be sprayed onto a few plants and inspected for visual effects of phytotoxicity (leaf burn) 3 to 7 days later.

## CARIERS AND DILUENTS

**CORON®** (Controlled Released Nitrogen) products can be used as a sole carrier or diluent for HM-0210-A applications. General use rate would be 3 to 6 ounces of CORON® per 1,000 sq. ft. Use rate of specific CORON® products may be dictated by local use patterns and /or historical findings.

## AGRICULTURAL APPLICATIONS

#### ALFALFA

HM-0210-A may be used for effective control of Downy Mildew, Phytophthora spp., and Pythium spp. in Alfalfa in commercial plantations.

	Applicatio		Application	
Disease	Method	Rate	Program	·
Downy Mildew	Foliar	1.25 pts to2.5 pints per acre-	Apply diluent solution so as to	
			thoroughly wet foliage. Apply at	,
			2 to 3 week intervals. Repeat	,
			as needed.	
— ····· ·	Irrigation	1.25 pts to2.5 pints per acre	Apply with	•
			normal irrigation	
			schedule. Apply at	
			2 to 3 week intervals.	
		· · · · · · · · · · · · · · · · · · ·	Repeat as needed.	,
Phylophthora.spp.	Foliar	1.25 pts to2.5 pints per acre	Apply diluent	
• • • • •			solution so as to	
			thoroughly wet	
			foliage. Apply at	
			2 to 3 week	
			intervals. Repeat	
ť			as needed.	
	Irrigation	1.25 pts to2.5 pints per acre	Apply with normal	
			irrigation schedule.	
		•	Apply at 2 to 3	
		. *	week intervals.	•
		•	Repeat as needed.	
•			1	
Pythium spp.	Foliar	1.25 to 2.5 pints per acre	Apply diluent	
., .,			solution so as to	
			thoroughly wet	1 · · · · · · · · · · · · · · · · · · ·
			foliage. Apply at	
			2 to 3 week	
		· · · · ·	intervals. Repeat	
			as needed.	
	Irrigation	1.25 to 2.5 pints per acre	Apply with normal	
			irrigation schedule.	
			Apply at 2 to 3	
		-	week intervals.	
			Repeat as	
		· .	needed.	
		·····		

#### ALMONDS\*

HM-0210-A may be used for effective control of root and collar rot and almond pruning-wound canker disease in Almonds and other nut crops such as walnuts grown in commercial plantations.

Disease	Application Method	Rate	Application Program		
Root and collar rot (Phylophthora spp)	Foliar	1.5 pints /acre in 125 gallons water to 3 pints in 250 gallons water	These treatments are required 1. Spring 2. Mid summer 3. Fall, post Harvest		
Almond-pruning Wound cankers (Phylophthora syringae)	Painl or spray	3 pints per acre in 100 gallons water	Apply to pruning wound and surrounding area, ensure area is thoroughly wet. In high disease situations use higher rate.	 	

\*Not for use in California.

#### ASPARAGUS\*

HM-0210-A may be used for effective control of crown rot & asparagus spear slime disease in asparagus crops arown in commercial plantations.

Disease	Applicati	on	Application						
	Method	Rate	Program						
Crown rot & Asparagus spear slime (Phylophthora spp)	Foliar	1.5 pints/acre in 100 gallons water 3 pints/acre in 200 gallons water	Apply to ferns that have 2 to 3 inches of new growth. Do not apply to ferns lhat are starting.						

to die down to die down (senesce). Established plantings, start applications when, conditions are favorable to disease (cool wet conditions). Ensure thorough coverage.

\*Not for use in California.

APPLES, CRAB APPLES, LOQUATS, PEARS, ORIENTAL PEARS & QUINCE\* HM-0210-A may be used for effective control of black spot, root and collar rot and fire blight in apples, crab apples, loquats, pears, Oriental pears, and quinces grown in commercial plantations.

Disease	Applicatio Method	Rate	Application Program	
Apple black spot or	Foliar	2.5 pints/acre in 150	First application	
scab	spray	gallons water/acre	at open cluster.	
(Venturia inaequalis)	opiay	ganons wateriaate	Last application at	
(			fifth cover or fruit	
			at 2* to 2 ½*	
			diameter. Total of	
			10 applications at	
			10 to 12 day	
		-	intervals. When	
			conditions are conducive to a	
			black spot	
			outbreak, an	
			application of	
			HM-0210-A should	
	•		be made	
			immediately.	
			Note: After 4 to 5	
		•	consecutive applications some	
			yellowing of	
			extension growth	
			may be observed.	
			If yellowing	
			occurs use	
			another fungicide	
			until yellowing of leaves	
			disappears.	
Root and collar rot	Foliar	Apply at 1.5 to 3	One to two month	
(Phytophthora	spray	pints/acre with a	intervals between	
cactorum)		maximum of 500	treatments.	
Fire Blight		gallons water/acre.	Under high	
(Erwina			disease pressure	
amylovora)		_	use higher	
Disease	Applicatio Method	n Rate	Application	
		naic	Program	<u>.</u>
			application rate	
		· .	,and shorter spray interval. Ensure	
			thorough	
			coverage.	
Not for use in	0.11/			

\*Not for use in California.

#### AVOCADOS

HM-0210-A may be used for effective control of root rot, trunk cankers and downy mildew in Avocado grown in commercial plantations.

Disease	Applicati Method	on Rate	Application Program			. <i>*</i>				
Root rot	Tree	Skeletal trees 1st	inject trees at				•	· · · ·		
Phylophthora	injection	year: ¼ fl oz undiluted	spring flush		•					
innamomi)		product/yard_of	maturity. Repeat							
	•	canopy diameter	treatment in		÷					
		Other situations:	February or March							
		1/8 fl oz diluted with	Drill holes 3/16			• .				
		1/2 ft cz of water/yard	inch (5 mm) in	•						
		Of canopy diameter.	diameter and 1			,				
			inch (25 mm) to 2							
			inches (50 mm)	•						
			deep with slight	· · · ·					•	
			downward angle in							
			trunk. Syringes			. •				
•			should be placed		•	•				
			in the main trunk							
			of the tree and							
			spaced evenly							
			around the							
			circumference of					•		
			the trunk. Suitable	•						
			for use with							
			Chemiet tree							
	· · · · ·		injectors. Ag-murf	-						
·		bel on the product before							 	

· · · · · · · · · · · · · · · · · · ·			gun, or hydraulic	 			 ·	•		
			tree injection. Do		•					
			not prune back trees before							
			injection process							1
			as burning of new							1
		· ·	growth may occur.							
			Do not inject trees							- 1
			in winter months.							
			Do not cut back							- 1
		·	the canopy of injected trees. Do	•						1
			not add any							
•			material, other						. '	
			, than water, to							1
			HM-0210-A by							
			trunk injection.							
		•	Do not inject more liquid in a lesser		•					
		•	number of			· •				
			syringes than							1
		•. ••	directed.							
`	Foliar	1/4 fl oz/galion water,	Spray to run off at							 
	spray	2.5-3.2 pints of	2-2 ½ gallons of							
[		product/acre	spray solution per							
			adult tree. Start							
			applications in spring, up to 4							
			applications a							
			year at two-month							
			intervals. Ensure				•			
			coverage.							
Canker	Trunk	1.5-3 pints mixed	Apply to-trunk			1				 
(Phytophthora	spray	with 5 gallons water	lesions using		-					
citricola)			sufficient spray							
}			volume to completely wet					•		
			the trunk and							
			lesions. If lesions							
			absent, apply to							
		·	trunk from soil							
		•	level to two feet							
1			up trunk. If							
			lesions present use higher rate.							
Dama allda				 					·	 
Downy mildew	Foliar	2.25 pints in 500 and gallons water	Spray to run-off, as required for							
]	spray	galiuns water	disease control.							
			uisease control.	 						1

#### BLUEBERRY\*

HM-0210-A may be used for effective control of root rot disease in blueberry crops grown in commercial plantations.

Disease	Applicatio	on	Application
	Method	Rate	Program
Root rot (Phytophthora spp)	Foliar .	1.5 pints/acre in 100 gallons water to 3 pints/acre in 200 gallons water.	First application in spring at pink bud and then on a regular schedule of application at two to three intervals.

\*Not for use in California.

#### BRASSICAS\*

HM-0210-A may be used for effective control of downy mildew in Broccoli, Broccoli Raab(rapini), Brussels sprouts, Broccolo, Cabbage, Cauliflower, cavalo broccoli, collards, Chinese Broccol(gai ion), i Chinese cabbage(Bok Choy)(Napa), Chinese mustard cabbage(Gai choy), kale, kohlrabi, mizuna, mustard greens, mustard spinach and rape greens grown in commercial plantations.

Disease	Applicati Method	on Rate	Application Program	 	,	
Downy mildew (Peronospora parasitica)	Foliar spray	1.5 pints /acre in 100 gallons water to 3 pints/acre in 185 gallons water.	1 to 3 weeks intervals between applications when conditions favor disease development (cool, moist weather). Use higher rates and shorter intervals when disease pressure increases,			

\*Not for use in California.

### CANE BERRIES\*

HM-0210-A may be used for effective control of root rot in blackberry, loganberry, raspberry (red, black, hybrids/cultivars) grown in commercial plantations.

	Applicati	ien	Application				 	 	 	
Disease	Method	Rate	Program	2						
Root rol (Phytophthora sp.)	Foliar spray	A minimum of 3 pints in at least 150 gallons water/acre. Ensure foliage is completely wet.	New plantings: start application when new growth is 2 to 3 inches long.							
•			established plantings start applications when cool wet							
			conditions occur which favor disease. West of Rocky Mountains:			·				
			Autumn applications, apply when conditions favor					r		
			disease, repeat in 4 weeks. Spring applications, first application after		•					
			bud break and repeat in 4 weeks. East of Rocky Mountains: First							
			application spring_post bud break ( 2 to 3 inches new	·						
			growth) and repeal at 50 to 60 day intervals. Do not exceed 4	÷					,	
			applications per season.							

\*Not for use in California.

## CHERRY

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HM-0210-A may be used for effective control of Downy Mildew, Phytophthora spp., and Pythium spp. in Alfalfa in commercial plantations.

lisease	Applicati Method	on Rate	Application Program	<i>r</i> .		·	-	
owny Mildew	Foliar	1.25 to2.5 pintsper ac	reFirst application					
-			at open cluster.	1				
			Last application at					
			fifth cover or fruit	•				
			at 2" to 2 ½"					
			diameter. Total of		14			
			10 applications at					
			10 to 12 day	· .				
			intervals. When					
			conditions are	• •				
			conducive to a		•			
			black spot					
			oulbreak, an					
			application of					
			HM-0210-A should	· .				
			be made					
			immediately. Note: After 4 to 5					
-	,		consecutive					
-			applications some					
			yellowing of		*			
			extension growth					
			may be observed.					
		· .	If yellowing					
			occurs use		1.1			
		•	another fungicide	•				
			until yellowing of				· · · ·	
• •			leaves			÷		
			disappears.					
hylophthora spp.	Foliar	1.25 to 2.5 pints per acr	re First application					
• • • • •			at open cluster.	· · · · ·				
			Last application at	•		•		•
			fifth cover or fruit					
			at 2" to 2 1/2"				· .	
•			diameter. Total of	· · · · ·				
			10 applications at		•	· · · · · · · · · · · · · · · · · · ·		
		• •	10 to 12 day		+			
-			intervals. When					
i.			conditions are			:		
•			conducive to a	· ·			· ·	
			black spot	1.5				
			outbreak, an					
			application of					
· .			HM-0210-A should	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1				
			be made		- 1			•

		C						26
		· ·	immediately. Note: After 4 to 5 consecutive applications some		· · · ·		· · ·	
	• •		yellowing of extension growth may be observed. If yellowing occurs use	· ·	•			
			another fungicide until yellowing of leaves disappears.	<u></u>				
Pythium spp. 	Foliar 1.25 to	o 2.5 pints per act	<ul> <li>First application at open cluster, Last application at fifth cover or fruit at 2" to 2 ½" diameter, Total of</li> </ul>	·				
			10 applications at 10 to 12 day intervals. When conditions are conducive to a					
	·	· .	black spot outbreak, an application of H <b>M-0210-A</b> should be made					
			immediately. Note: After 4 to 5 consecutive applications some yellowing of					
			extension growth may be observed. If yellowing occurs use another fungicide			·		
		·	until yellowing of leaves disappears.					

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#### CITRUS-Mature Trees

HM-0210-A may be used for effective control of root rot and collar rot diseases in citrus grown in commercial plantations.

Disease	Applicati Method	ion Rate	Application Program			
Brown rot and foot rol (Phytophthora spp)	Foliar spray	3 pints /acre in a maximum of 500 gallons water.	When conditions favor disease. Spray trees to run off ensure even coverage. Do not apply at high temperatures (above 95°F) particularly, if humidity is low or to moisture- stressed trees.			
Root rot and collar rot (Phythopthora spp and Phytophthora citrophthora)	Trunk spray	Mix 1.5 t o3 pints in a minimum of 5 gallons water	Spray trunk lesions with enough spray volume to ensure lesions are completely wet. When disease levels are high use higher rate.			

## CLOVER

HM-0210-A may be used for effective control of Downy Mildew, Phytophthora spp., and Pythium spp. in Alfalfa in commercial plantations.

Disease	Application Method Rate	2. •	Application Program		· .			
Downy Mildew	Foliar 1.25 to	2.5 pints per acre	First application					
•			at open cluster.					
	,		Last application at					
	'	,	fifth cover or fruit					
	· ,		at 2" to 2 1/2"					
			diameter. Total of					
			10 applications at	•				
			10 to 12 day					
			intervals. When					
			conditions are					
	2		conducive to a					
			black spot					
			outbreak, an					
			application of					
			HM-0210-A should	. •	· · · ·			
		· · · ·	be made					

		− ₹ ÷			•	· ( · · · · · · · · · · · · · · · · · ·
		· ·		and the second		
		i	<u> </u>			······································
			· ·	immediately. Note: After 4 to 5		
				consecutive	•	
				applications some		
				yellowing of		
				extension growth		
	•			may be observed.	· ·	
				If yellowing		
				occurs use		
				another fungicide		,
			- 1	until yellowing of		
			•	leaves disappears		•
Dhutashtha				the second s	· ·	
Phylophthora spp.	Foliar	1.25 to 2.5 pints (	bel scle	First application		
				at open cluster. Last application at		
			· · .	fifth cover or fruit		
•				at 2" to 2 1/2"		· ,
	•			diameter. Total of		•
				10 applications at		
			•	10 to 12 day		
				intervals. When		
	-	•		conditions are		
				conducive to a		
				black spot		
				outbreak, an		
				application of	•	
				HM-0210-A should		
				be made		<ul> <li>A state of the sta</li></ul>
				immediately. Note: After 4 to 5		
				consecutive		
				applications some		
				yellowing of		
				extension growth		
				may be observed,		
				If yellowing		۲. ۲
				occurs use	•	
			•	another fungicide		
		•		until yellowing of		
				leaves disappears.		· · ·
				· · ·		
Pythium spp.	Foliar	1.25-2.5 pints per	acre	First application		
		•		at open cluster.		
				Last application at fifth cover or fruit		·
				at 2" to 2 1/2"		
			f	diameter. Total of		
			•	10 applications at		
				10 to 12 day		
				intervals, When		
			•	conditions are		
			,	conducive to a		
				black spot		
				outbreak, an		
				application of		
				HM-0210-A should		
				be made		
				immediately. Note: After 4 to 5		
				consecutive		·
•				applications some		
				yellowing of		
				extension growth		
				may be observed.		
				If yellowing		
				occurs use	•	
		• •		another fungicide		
,				until yellowing of		, , ,
				leaves		
				disappears.		

## COCUNUTS

HM-0210-A may be used for effective control of bud rot and nut fall in coconuts grown in commercial plantations.

Disease	Application Method Rate	Application Program		· .	
Bud rot-Nut fall (Phylophthora	Injection Between .25 ft oz		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	· ·
palmivora)	210.75 11 02/1196	final injection		1	
		volume of 1 fl oz			
	. ,	to 2 fl oz of water and HM-0210-A.	• • •		
		Inject into the			
		trunk or root system.	· · · ·	· · · · ·	·

## CUCURBITS

Such as cucumber, Chinese waxgourd, citron melon, gherkin rock melon, honeydew melon, pumpkin, zucchini, watermelon and squash (summer and winter), momordica spp balsam apple, balsam pear, bitter melon, and Chinese cucumber. HM-0210-A may be used for effective control of sudden wilt, gummy stem blight, and downy mildew diseases in cucurbits grown in field situations.

Disease	Applicati Method	on Rate	Application Program		 					
Sudden will-Roo! and fruit rot (Phytophthora spp)	Foliar	Light to medium foliage spray cover: Apply 1.6 pints /acre in 100 gallons water to 2.5 pints /acre in 150 gallons/water. Heavy foliage cover: Apply 3.6 pints /acre in 225 gallons water.	Entire spray coverage of plant is required. Do not exceed a total of 6 applications per season.							
Gummy stem blight	Foliar- spray	Light to medium foliage cover: Apply 1.6	Apply when disease is evident							
(Mycosphaerelia		pints /acre in 100	Continue							
Melonis)		gallons water to 2,5 Pints /acre in 150 gallons water Heavy foliage cover: Apply 3,6 pints /acre in 200 gallons water.	applications at 21 day intervals until cure is apparent. Do not exceed a total of 6 applications per season.		-		-		-	
Downy mildew (Pseudoperonospora cubensis)	Foliar Spray	Light to medium foliage cover: Apply 1.6 pints/acre in 100 gallons water to 2.5 pints /acre in 150 gallons water.	Apply within 7 to 10 days of infestation. Repeat as necessary. Do not exceed a total of	· · ·		 				
·····		Heavy foliage cover: Apply 3.6 pints/acre in 225 gallons water.	6 applications per season.							

#### CUCRBITS, TANK MIXTURES\*

For the effective control of downy mildew diseases HM-0210-A should be tank mixed with Dithane® fungicide and applied to cucurbits grown in commercial plantations.

Product	Disease	Rate	Application Program	х
HM-0210-A + DITHANE®	Downy mildew	Light to medium foliage cover: Apply 1.6 to2.5 pints of product/acre Heavy foliage cover: Apply 3.6 pints of product/acre + Rohm Haas recommended rate of DITHANE®**		

\* Not for use in California

#### **GINSENG\***

HM-0210-Amay be used for effective control of foliar and root rot in ginseng grown in commercial plantations.

	Applicati	ion	Application	
Disease	Method	Rate .	Program	
Foliár and root rot (Phytophthora cactorum)	Foliar spray	3 pints in 100 gallons of spray solution.	In cool wet conditions that favor Phytophthora, applications should be made at 7 day intervals. Do not exceed a total of 8 applications per season.	

\*Not for use in California.

GRAPES

HM-0210-A may be used for effective control of downy mildew diseases in grapes grown in commercial vineyards.

	Applicati	on	Application				
Disease	Method	Rate	Program	•			۰,
Downy mildew (Plasmopara viticola)	Foliar spray	Early season small canopy, 1.6 pints /acre in 100 gallons water. Late season/large.	It is essential that the rate of HM-0210-A be adjusted to the vine-row volume, i.e., the volume of vine foliage per acre. Spray timing			,	

· · · · · · · · · · · · · · · · · · ·	- 	ς.	20
canopy,2.5 pints/acre in 150 gallons water to 3.2 pints /acre in 200 gallons water.	is critical. HM-0210-A should be applied at times of high		· · · · · · · · · · · · · · · · · · ·
	disease risk, especially between the time that conditions		
 	are conducive to downy mildew infection and the appearance of oil		
	spots. Ensure spray coverage is adequate and that the appropriate		
	rate of HM-0210-A is applied to match vine		· · · · · · · · · · · · · · · · · · ·
	growth, particularly from mid-season onwards, and		
	especially where grapes are grown on rool slock.		

#### **GRAPES, TANK MIXTURES\***

For the effective control of downy mildew diseases HM-0210-A should be tank mixed with Dithane® fungicide and applied to grapes grown in commercial vineyards.

Product	Disease	Rate	Application Program
HM-0210-A + DITHANE@**	Downy mildew	Early season small canopy, 1.6 pints lacre in 100 gallons water. Late season/large canopy, 2.5 pints lacre in 150 gallons water to to 3.2 pints lacre in 200 gallons water + Rohm & Haas recommended rate of DITHANE@**.	recommended quantity and dilution rates with water of both products. For best results = apply HM-0210-A

\*Not for use in California.

\*\*Registered trademark of Rohm & Haas.

#### HOPS\*

HM-0210-A may be used for effective control of downy mildew in hops grown in commercial plantations.

	Applicati	on	Application			
Disease	Method	Rate	Program			
Downy mildew	Foliar Spray by ground only	1.5 pints in 100 gallons water/acre.	When conditions favor disease, applications should occur when A. Shoots are % to 1 foot long, B. Post- training when vines are 6 feel high, C. 21 days post-application (B), and D. During bloom.			

\*Not for use in California

#### **LEAFY VEGETABLES\***

HM-0210-A may be used for effective control of downy mildew in leafy vegetables such as amaranth, arugula, cardoon, celery, chervil, corn salad, Cress, Dandelion, Dock(sorrel), endive(Escarole), fenne(Florence), Lettuce( Head & Leaf), parsley, radicchio, rhubarb, spinach, and Swiss chard grown in commercial plantations. Excludes Brassica vegetables. Note: Do not exclude seven applications per year.

· · · · · · · · · · · · · · · · · · ·	
	Application Application
Disease	Method Rate Program Annual Pr
Downy mildew	Follar 2.5 pints/acre in 150 Ensure spray
(Brenia lactucae)	spray gallons water coverage is
Disclaimer: Always	refer to the label on the product before using Helena or any other product.

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adequate to wet the whole plant. During warm, wet conditions, application at 7 to 10 day intervals may be required.

\*Not for use in California

#### LEGUMES:

For the effective control f damping-off and root rot diseases in legumes(succulent and dried) suchas, green beans,soybeans,waz beans, field beans,navy beans, lima beans,fava beans(with a nice Chianti),kidney,kidney beans,pinto beans,mung beans, broad beans,lentils,chickpeas,English peas,sugar snap peas,black-eyed peas, cow peas,and pigeon peas.

Disease	Application method	Rate	Application Program		 	 		
Phytopthora and	Folíar Spray	1.5 tsp. to 1.25 Oz per gallon Water	i Apply at 14-day intervals after plant emergence, As needed. Assure good coverage.	· · · · · ·				

#### LETTUCE:

HM-0210-A may be used for effective control of downy mildew diseases in lettuce grown in commercial plantations.

	Application		Application		
Discase	Method	Rate	Program	· .	
Downy mildew Brenia laclucae)	Foliar spray	2.5 pints/acre in 150 gallons water	Ensure spray coverage is adequate to wet the whole plant. During warm, wet conditions, application at 7 to 10 day intervals may be required.		· · ·

#### MACADAMIA NUTS

HM-0210-A may be used for effective control of raceme blight in macadamia nuts grown with good cultural practices in commercial plantations.

Disease	Applicati Method	on Rate	Application Program			
Raceme blight (Phylophthora spp)	Foliar spray	4 pints/acra in 200 gallons water	Apply when disease is first seen and re- apply at 3 week intervals. Spray to the point of run-off.		· · ·	· · ·

#### MANGOS

HM-0210-A may be used for effective control of anthracnose in mangos grown in commercial plantations.

Disease	Application Method Rate	Application Program	 
AnthracnoseFoliar (Colletotrichum Gloeosporoldes)	.25 fi oz/galion water spray	Spray tree every 14 days during biossom period, then monthly until harvest. Spray to the point of run-off.	

#### **NonGrass Animal Feed\***

HM-0210-A may be used for effective control of damping-off and root rot diseases in okra.

Application		Application		-				
Disease	Method	Rate	Program			•		
Phytophthora And Pythium spp.	Foliar spray	1 ½ quarts per acre in 25 gallons of water to 2 quarts per acre in 250 gallons of water	Apply at 14-day intervals after plant emergence as needed. Assure good coverage.		<u> </u>			

\*Not for use in California.

#### Okra\*

HM-0210-A may be used for effective control of damping-off and root rot diseases in forage crops such as, but not limited to, alfalfa, clover, and vetch.

Application		on	Application	 		
Disease	Method	Rate	Program			
Phytophthora And Pythium spp.	Foliar spray	1 ½ quarts per acre in 25 gallons of waler to 2 quarts per acre in 250 gallons of water	Apply at 14-day intervals after plant emergence as needed. Assure good coverage.			

\*Not for use in California.

#### NUT CROPS (Almonds, Chestnut, Wainut, & Other Nut Crops)

HM-0210-A may be used for effective control of raceme blight in Nut Crops grown with good cultural practices in commercial plantations.

Applicatio	on ·	Applicatio	n i i	
Disease	Method	Rate	Program	
Raceme blight (Phylophthora spp)	Foliar spray	4.5 pints/acre in 250 gallons water	Apply when disease is first seen and re- apply at 3 week intervals. Spray to the point of run-off.	

#### ONIONS

HM-0210-A may be used for effective control of downy mildew disease in onions, garlic and shallots grown in commercial plantations. Use as a preventative control program for best results.

Disease	Application Method	on Rate	Application Program		······································	
Downy mildew (Peronospora destructor)	Foliar spray	2.5 pints/acre in 100 gallons water/acre.	As a regular preventative control program or when disease		·····	
Disease	Applicati Method	ion Rate	Application Program			
			first appears.	· · · · · · · · · · · · · · · · · · ·		

#### **ONIONS, TANK MIXTURES\***

For the effective control of downy mildew diseases HM-0210-A should be tank mixed with Dithane® fungicide and applied to onions, garlic and shallots in commercial plantations.

Product	Disease	Rate	Application Program	
HM-0210-A + Dithane®**	Downy mildew	2.5 pints/acre in 100 gallons water/acre + Rohm & Haas	Apply as a foliar spray the recommended	
· .		recommended rate of Dithane®**	quantity and dilution rates with water of both	
•		· ·	products. For best results, apply HM-0210-A as a tank mix with	
•			protectant fungicides such as Mancozeb/	
			Dithane®** to ensure both pre-	
			and post-infection activity.	

\*Not for use in California

\*\*Registered trademark of Rohm & Haas.

Use AGRI-FOS® for effective control of damping-off and root rot disease in peanuts.

Disease	Application Method	Rate	Application Program
Phytophthora and Pythium spp	Foliar spray	1½ quarts per acre in 25 gallons of water to 2 quarts per acre in 250 gallons of water	Apply at 14-day Intervals, as necessary. Ensure Ihorough coverage.
•			

\*Not for use in California.

2 pints in 25 gals to 2.5 pints in 250 gals

#### PINEAPPLES

HM-0210-A may be used for effective control of Phytophthora root and heart rot diseases in pineapples grown in commercial plantations.

Applicați	on	Application		
Method	Rate	Program	·	<u> </u>
Foliar	3.2 pints in 25-50	Apply to tops, 14		-
spray	gallons water/acre	days prior to		
	-	harvest of		
		Will treat enough		
dip	gallons water			
spray	gallons water			
			•	
	Method Foliar	Foliar3.2 pints in 25-50spraygallons water/acrePreplant1.5 pints in 100dipgallons waterFoliar2.5 pints in 100	Method         Rate         Program           Foliar         3.2 pints in 25-50         Apply to tops, 14           spray         gallons water/acre         days prior to harvest of planting material.           Preplant         1.5 pints in 100         Will treat enough slips to plant one acre.           Foliar         2.5 pints in 100         Established	Method         Rate         Program           Foliar         3.2 pints in 25-50         Apply to tops, 14           spray         gallons water/acre         days prior to harvest of planting           Preplant         1.5 pints in 100         Will treat enough dip           gallons water         slips to plant one acre.           Foliar         2.5 pints in 100           Established         scre.           spray         gallons water           barrel         planting when conditions favor disease.           Applications at 90 day intervals may be required.         gallons water

#### **Root and Tuber Vegetables\***

Use HM-0210-A for effective control of foliar and root rot in ginseng, damping-off and root rot diseases in carrots, and late blight disease and storage diseases such as pink rot and pythium leak in potatoes, sweet potatoes, and vams.

Olsezse	Application Method	Rate	Application Program		
Ginseng: Foliar and root rot (Phylophthora cactorum)	Foliat spray	2% quarts in 100 gallons of water	In cool wet conditions that favor Phytophthors. Apply at 7 day intervals. Do not exceed a total of 8 applications per season.		
Carrois: Phytophthora and Pythium spp	Foliar spray	1 ½ quarts per acre in 25 gallons of water to 2 quarts per acre in 250 gallons of water	Apply at 14-day intervals after plant emergence, as needed. Assura good coverage.		
Potatoes, Sweet Potatoes, Yams: Pink rot and Pythlum leak (Phytophihora enythroseptica and Pythlum spo)	In-furrow spray	2-5 quarts per acre in 10 gations water	Apply in a bend spray directly over top of potato seed just before row is closed.		
Potatoes, Sweet Potatoes, Yams: Late blight, Pink rot and Pythium leak(Phytophthora infestans, Phytophthora erythroseptice and Pythium spp)	Foïler spray	1% quarts per acre in 90-375 gallons water per acre	Apply at 5 to 14 day intervals subject to disease incidence.		

"Except for polatoes, sweet polatoes, and yarns, not for use in California.

3 pints,2 pints-2.5 pints,2.5 pints-6 pints,(1.5 pints(100-250 gals of water)

#### POTATOES

HM-0210-A may be used for effective control of late blight disease, storage diseases such as pink rot and pythium leak in potatoes arown in commercial plantations.

, ,	Application	on	Application	 •	 
Disease	Method	Rate	Program		
Pink rot and Pythium Leak (Phytophthora erythroseptica and Pythium spp)	In furrow spray	2.5-6 pints vacre in 10 gallons water	Apply in a band spray directly over top or just before row is closed.	 · · · · · · · · · · · · · · · · · · ·	
Late blight, Pink Rot and Pythium Leak (Phytophthora Infestans, Phylophthora erythroseptica and Pythium spp)	Foliar spray	1.5 pints/acre in 90 gallons water to 6 pints/acre in 375 gallons water.	Apply at 5 to 14 day intervals subject to disease incidence.		

#### POTATOES, TANK MIXTURES, IN-FURROW SPRAY

For the effective control of late blight disease, storage diseases such as pink rot and pythium leak, HM-0210-A should be tank mixed with a Mefenoxam-containing fungicide, registered for this use pattern and applied to potatoes grown in commercial plantations.

Product	Disease	Rate	Application Program
+ Mefenoxam containing fungicide, registered	Phytophthora	1.5 - 6 pints /acre in 10 gallons water + Mefenoxam containing fungicide, as per label directions.	Apply in a band spray directly over top or just before row is closed as per registered label directions.

#### POTATOES, TANK MIXTURES, FOLIAR SPRAY

For the effective control of late blight disease, storage disease such as pink rot and pythium leak, HM-0210-A should be tank mixed with mefenoxam, or triphenyltin hydroxide-containing fungicide, registered for this use pattern and applied to potatoes grown in commercial plantations.

Product	Disease	Rate	Application Program	
+		1.5-6 pints/acre in 10 galions water + mefenoxam or triphenyllin hydroxide- containing fungicide, as per label directions.	Additional foliar applications may become necessary when 1) High disease pressure is evident. 2) Susceptible cultivars or long growing season locations are selected as per registered label directions.	

#### STONE FRUIT\* (Peaches, Plums, & Prunes)

HM-0210-A may be used for effective control of root, collar rot, and almond pruning wound canker disease in stone fruit grown in commercial plantations.

Disease	Applicatio Method	n Rate	Application Program	
Root and collar rot (Phytophthora spp)	Foliar spray	3 pints/acre in 200 gallons water.	Three treatments are Required 1. Spring 2. Mid summer 3. Fall, post- harvest	
Almond pruning- wound cankers (Phytophthora syringae)	Paint or spray	1.25-3 pints in 100 gallons water.	Apply to pruning wound and surrounding area, ensure area is thoroughly wet. In high disease situations use figher rate.For small volume applications, mix 4-6.5 ounces of product per gallo	n of water.

\*Not for use in California

#### STRAWBERRIES

HM-0210-A may be used for effective control of leather rot, red stele and Phytophthora disease in strawberries grown in commercial plantations.

Γ	•	Application	Application	
1	Disease	Method Rate	Program	
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Red stele (Phytophthora fragariae)	Pre- planting (	1,5 pints in 100 dip gallons water.	Dip planting material in this solution for 30 minutes, then plant within one day. Program may be used for annual and perennial varieties.		
Disease	Foliar spray Applicat Method	<ul> <li>1.5 pints/acre in 100 gallons water to 2.75 pints/acre in 200 gallons water.</li> <li>tion Rate</li> </ul>	Annual crops, first treatment 14 to 21 days post planting, repeat at 1-2 Application Program		
	•		month intervals when disease is evident. Perennial crops, first treatment.during spring growth flush, repeat at 1- 2 month intervals when disease is evident. For susceptible varieties use higher rates and shorter spray intervals.		
Leather rot (Phytophthora Cactorum)	Foliar spray	1.5 pints/acre in 100 gallons water to 3 /acre in 200 gallons water.	Apply at 10% bloom and early fruit set, then at one to two week intervals as required for disease control. In high disease situations use higher reles and shorter spray intervals		

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# \*Not for use in California SUGAR BEETS

HM-0210-A may be used for effective control of Downy Mildew, Phytophthora spp., and Pythium spp. in Alfalfa in commercial plantations.

Disease	Applicatio Method	n Rate	Application Program	
Downy Mildew	Foliar	1.5-2.5 pints per acre	Apply diluent solution so as to thoroughly wet foliage. Apply at 2 to 3 week intervals. Repeat as needed.	
· · · ·	trigation	1.5-2.5 pints per acre	Apply with normal irrigation schedule. Apply Apply at 2 to 3 week intervals. Repeat as needed.	
Phylophthora spp.	Foliar	1.5-2.5 pints per acre	Apply diluent solution so as to thoroughly wet foliage. Apply at 2 to 3 week intervals. Repeat as needed.	
	Irrigation	1.5-2.5 pints per acre	Apply with normal irrigation schedule. Apply Apply at 2 to 3 week intervals. Repeat as needed.	
Pythium spp.	Foliar	1.5-2.5 pints per acre	Apply diluent solution so as to thoroughly wet foliage. Apply at 2 to 3 week intervals. Repeat as needed.	
	Irrigation	1.5-2.5 pints per acre	Apply with normal irrigation schedule. Apply Apply at 2 to 3 week intervals. Repeat as needed.	

#### TOBACCO

HM-0210-A may be used for effective control of Downy Mildew, Phytophthora spp., and Pythium spp. in Alfalfa in commercial plantations.

Disease	Applicatio Method	n Rate	Application Program							
Downy Mildew	Foliar	1.5-2.5 pints per acre	Apply diluent solution so as to thoroughly wet foliage. Apply at 2 to 3 week intervals. Repeat as needed.	 •						
	Irrigation	1.5-2.5 pints per acre	Apply with normal irrigation schedule. Apply Apply at 2 to 3 week intervals. Repeat as needed.	 · · ·					. <u> </u>	
Phytophthora spp.	Foliar	1.5-2.5 pints per acre	Apply diluent solution so as to thoroughly wet foliage. Apply at 2 to 3 week intervals. Repeat as needed.			· ·	·····			
	Irrigation	1.5-2.5 pints per acre	Apply with normal irrigation schedule. Apply Apply at 2 to 3 week intervals. Repeat as needed.				-			
Pythium spp.	Foliar	1.5-2.5 pints per acre	Apply diluent solution so as to thoroughly wet foliage. Apply at 2 to 3 week intervals. Repeat as needed.		· · ·			 		
	Irrigation	1.5-2.5 pints per acre	Apply with normal irrigation schedule. Apply Apply at 2 to 3 week intervals. Repeat as needed.				-			- <u>.</u>

### TOMATOES\*

HM-0210-A may be used for effective control of late blight and root rot in tomatoes and tomatillos grown in commercial plantations.

Disease	Application Method	Rate		Application Program	· · ·		•			
Late blight and root rot (Phytophthora infestans and Phytophthora spp)	• •	1.5 pints/acre in gallons water to pints/acre in 200 gallons water.	3	First application at transplant or when direct seeded crops are at 2-4 true leaf.	······					
		, ,		then at one to two week intervals as required to contro disease. In high	1	•		۰,		
•	•	*		disease situations use higher rates and shorter spray intervals.		• • •				

\*Not for use in California.

#### FOR CONTROL AND PREVENTION OF PHYTOPHTHORA RAMORUM, (SOD) SUDDEN OAK DEATH

#### Injection Application

Injection application can be made with various commercially available applicators that maintain positive pressure differential such as; ChemJet®, Sidewinder®, Ag-murph Gun®, Marley® Injector, or hydraulic applicator type equipment that forces solution in to the sapwood of the tree. Do not inject in areas of obvious decay, canker or mechanical injury that appear on the tree trunk. Drill holes 3/16 inch (5mm) in diameter into live sapwood (depth dependent upon age of tree) with downward angle into trunk uniformly around the tree circumference, using a slow drill.

#### **Rate Determination**

Calculate the amount of product required by measuring the trees for product injection by one of the following 3 methods: and use the highest calculated number of injections.

1 injection per square yard of canopy Method 1.

1 injection per vard of diameter of canopy measured at the drop-line Method 2.

1 injection per 6 inches of trunk circumference measured at 4 feet above soil level Method 3.

Injection Solution

Mix 1 part HM-0210-A and 2 parts water and inject a total of 7.5 ml. or .25 ounce of HM-0210-A solution per injection. Remove injector(s) after treatment solution is dispensed. Do not add any other products to injection solution. If using resusable applicator clean or disinfect applicator tip with chlorine beach solution or similar disinfectant prior to next treatment to prevent spread of pathogen

Ultra Small Volume Calculation HM-0210-A

7.5 ml solution Calculation or .25 ounce Calculation 2.5 ml 0.1 oz. or ¾ teaspoon 4.0 ml 0.2 oz. or 1 and 1/3 teaspoon

Volume Calculation

To make 1 quart of end use injection solution 11 oz. of HM-0210-A 324 ml HM-0210-A or 21 oz. of Water 624 ml Water

#### **Basal Bark Application**

Mix solution of 21 parts HM-0210-A with 21 parts water solution with 1 part PENETRATOR Apply this uniformly to the circumference of the trunk of the tree. Spray from the top down to ground level from either first branch or from as high as possible without exposing applicator to drift. Spray to just prior to runoff.

Treatment is generally effective if applied uniformly to 6 to 9 feet or trunk circumference, or from first branch to ground level, depending upon age and infection level of tree. Can be used as preventative or curative application for trees listed.

Various types of application equipment can be used to apply HM-0210-A solution such as from hydraulic sprayers, handheld pump up sprayers, backpack sprayers, hose end applicators with backflow prevention devices and other similar application devices.

#### Solution Calculation

For 1 gallon of HM-0210-A Basal Bark end use solution: Mix

1.2 L of HM-0210-A or	42 oz. HM-0210-
1.2 L of water	42 oz. water

55 ml Penetrator Surfactant 3.2 ounces Penetrator Surfactant Mix and apply uniformly to circumference of tree

trunk bark surface.

Penetrator has been formulated, tested and proved to be effective in this application with HM-0210-A. No No other products should be added to application solution.

#### **ORNAMENTAL APPLICATIONS\***

HM-0210-A may be used for effective control of Bacterial blight, Downy mildew, Phytophthora and Pythium diseases of Ornamnetal grown in commercial landscapes, commercial nurseries, golf courses, parks, and greenhouses. HM-0210-A may be applied to plants such as Aglaonema, Anthurium, Aphelandra, Arborvitae, Azaleas, Bougainvillea, Boxwood, Cattelya skinneri, Ceanothus, Cotoneaster, Cissus, Diffenbachia, Dogwood, English ivy, Ficus, Hisbiscus, Juniper, Japanese Holly, Leather leaf Fern, Monterey Pine, Peperomia, Phótinia, 🗤 Pittosporum, Philodendron, Pieris, Pothos, Rhododendron, Roses, Schefflera, Sedum, Sempervivum, Syngonium, Spathiphyllum, Taxus media, White Pine, White Cedar, and Zygocactus. Applications should occur before disease development and in conjunction with good cultural management practices. Use higher rate of Disclaimer: Always refer to the label on the product before using Helena or any other product. application when disease pressure is severe. Do not exceed recommended application rates or apply more frequently than stated on label or plant injury may occur. Do not apply to plants that are heat or moisture stressed. Do not apply to plants that are in a state of dormancy. Do not exceed recommended spray intervals or label rates as plant injury can occur.

Disease	Applicatio Method	n Rate	Application Program	•				÷	_	
Bacterial blight (Xanthomonas Campestris) posthovars Dieffenbachiae, fici Hederae and syngonli	Foliar spray	1.2 to 2.5pints per 100 gailons of water OR .25 to .4 fl oz per gallon of water	Apply spray to thoroughly wet all foliage. Application intervals: 7 to 14 days. Repeat as required.				· .			
Downy mildew		1.5 - 3 pints per 100 gallons of water OR .25 to .50 fl. oz. per gallon of water	Apply spray to thoroughly wet all foliage. Application intervals: 14 to 21 days. Repeat as required.		•					
Phylophlhora and Pythium		1.25-2.5 pints per 100 gallon of water OR 1/3 to 2/3 fl. Oz. per gallon of water	Apply spray to thoroughly wet all foliage. Application intervals: 14 to 21 days. Repeat as required.				,			•
	Soil drench	3.75 to 7.6fi. oz. per 100 gallons of of water	Apply each 25 gallons of solution to an area of 100 square feet. Follow application with irrigation. Repeat as required. Limit of one application per month.			•				
	Soil Incorpora <del>,</del> Iion	.75-1.2 pints per cubic yard of soll	Just prior to potting, mix 1 to 2 pts. of HM-0210-A into each cubic yard of growing media. If disease pressure is high, foliar spray or soil drench may be needed.							
Disease	dipping of transplants Applicatio	OR .25 fl. Oz. per gallon	Immediately before transplanting, dip transplants for two minutes; keep roots submerged, ensure root mass Application Program				•			

#### \*Not for use in California.

#### ORNAMENTAL APPLICATIONS\* (Homeowner)

HM-0210-A may be used for effective control of Bacterial blight, Downy mildew, Phytophthora and Pythium diseases of ORNAMENTALS: HM-0210-A may be applied to plants such as Aglaonema; Aphelandra, Arborvitae, Azaleas, Bougainvillea, Boxwood, Cattelya skinneri, Ceanothus, Cotoneaster, Cissus, Diffenbachia, Dogwood, Ficus, Hisbiscus, Juniper, Japanese Holly, Leather leaf Fern, Monterey Pine, Peperomia, Photinia, Pittosporum, Philodendron, Pieris, Pothos, Rhododendron, Roses, Schefflera, Sedum, Sempervivum, Taxus media, White Pine, White Cedar, and Zygocactus. Applications should occur before disease <u>Disclaimer</u>. Always refer to the label on the product before using Helena or any other product. 26

development and in conjunction with good cultural management practices. Use higher rate of

 application when disease pressure is severe. Do not exceed recommended application rates or apply more frequently than stated on label or plant injury may occur. Do not apply to plants that are heat or moisture stressed. Do not apply to plants that are in a state of dormancy.

Disease	Applicatio Method	n Rate	Application Program	:		•	•		
Bacterial blight (Xanthomonas Campestris) posthovars Dieffenbachiae, fici Hederae and syngonli	Foliar spray	.25 to .50 fi, oz. per gallon of water	Apply spray to thoroughly wet all foliage. Application intervals: 7 to 14 days. Repeat as required.	· · · ·				 	 
Downy mildew	Foliar Spray	.25 to .50 fl. oz. per gallon of water	Apply spray to thoroughly wet all foliage. Application intervals: 14 to 21 days. Repeat as required.		· · ·			 ······································	 ••••••••
Phylophlhora and Pythium	Foliar Spray	.25 to 50 fl. oz. per gallon of water	Apply spray to thoroughly wet all follage. Application intervals: 14 to 21 days, Repeat as required.	•					 
Phytophthora and Pythium	Soil drench	4.0 to 7.5 fl. oz. per 100 gallons of of water	Apply each 25 gallons of solution to an area of 100 square feet. Follow application with irrigation. Repeat as required. Limit of one application per month.						
Phytophthora and Pythium		to 1.2 pints per cubic yard of soil	Just prior to potting, mix 1 to 2 pts. of HM-0210-A into each cubic yard of growing media. If disease pressure is high, foliar spray or soil drench may be needed.				. <u></u> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	 	<sup>.</sup>
Phylophlhora and Pylhium	Bare rooted dipping of transplants		immediately before transplanting, dip transplants for two minutes, keep roots submerged, ensure root mass is thoroughly wet.		-			 	

\*Not for use in California.

#### **BEDDING PLANTS\***

HM-0210-A may be used for effective control of Downy mildew, Phytophthora and Pythium diseases of BEDDING PLANTS grown in commercial landscapes, commercial nurseries and golf courses, parks, and greenhouses. HM-0210-A may be applied to plants such as Ageratum, Algerian Ivy, Anthurium, Artemesia, Aster, Begonia, Baby's Breath, Caladium, Carnation, Chrysanthemum, Columbine, Coleus, Daisy, Delphinium, Easter Lily, English ivy, Foxglove, Gallardia, Geranium, Gloxinia, Impatiens, Marigold, Petunia, Pansy, Phlox, Pinks, Poinsettia, Primrose, Prostrate Rosemary, Salvia, Snapdragon, Vinca, Verbena, and Zinnia. Applications should occur before disease

development and in conjunction with good cultural

management practices. Use higher rate of application when disease pressure is severe. Do not exceed recommended application rates or apply more frequently than stated on label or plant injury may occur. Do not apply to plants that are heat or moisture stressed.

Disease	Applicatio Method	n Rate	Application Program	
Downy mildew	Foliar spray	1.5 to 2.75 quarts per 100 gallons of water OR 1/4 to .75 fl. cz. per gallon of water	Apply spray to thoroughly wet all foliage Application intervals: 14 to 21 days. Repeat as required.	
Phylophthöra and Pylhium	Foliar spray	1.25 to 2.5 pints per10 gallon of water OR .25 to .50†1. Oz. per gallon of water	OApply spray to thoroughly wet all foliage. Application intervals: 14 to 21 days. Repeat as required. Note: Do not apply more than 500 gallons of spray solution per acre.	
Phylophthora and Pythium	Soil drench	4.0 to 7.5 fl. oz. per 100 gallons of of water	Apply each 25 gallons of solution to an area of 100 square feet. Follow application with irrigation. Repeat as required. Limit of one application per month.	

\*Not for use in California.

#### BEDDING PLANTS\* (Homeowner)

HM-0210-A may be used for effective control of Downy mildew, Phytophthora and Pythium diseases of BEDDING PLANTS. HM-0210-A may be applied to plants such as Ageratum, Algerian Ivy, Anthurium, Artemesia, Aster, Begonia, Baby's Breath, Caladium, Carnation, Chrysanthemum, Columbine, Coleus, Daisy, Delphinium, Easter Lily, English ivy, Foxglove, Gallardia, Geranium, Gloxinia, Impatiens, Marigold, Petunia, Pansy, Phlox, Pinks, Poinsettia, Primrose, Prostrate Rosemary, Salvia, Snapdragon, Vinca, Verbena, and Zinnia. Applications should occur before disease

development and in conjunction with good cultural management practices. Use higher rate of application when disease pressure is severe. Do not exceed recommended application rates or apply more frequently than stated on label or plant injury may occur. Do not apply to plants that are heat or moisture stressed.

Disease	Applicati Method	on Rate	Application Program	• •		• •			
Downy mildew	Foliar spray	1/4 to 3/4 fl. oz. per gallon of water	Apply spray to thoroughly wet all		· .				
	· ·		foliage, Application intervals: 14 to 21						
	• .	، ۲۹۲۰ ، ۱۹۹۰ - ۲۹۹۰ - ۲۹۹۰ - ۲۹۹۰ - ۲۹۹۰ - ۲۹۹۰ - ۲۹۹۰ - ۲۹۹۰ - ۲۹۹۰ - ۲۹۹۰ - ۲۹۹۰ - ۲۹۹۰ - ۲۹۹۰ - ۲۹۹۰ - ۲۹۹ ۱۹۹۰ - ۲۹۹۰ - ۲۹۹۰ - ۲۹۹۰ - ۲۹۹۰ - ۲۹۹۰ - ۲۹۹۰ - ۲۹۹۰ - ۲۹۹۰ - ۲۹۹۰ - ۲۹۹۰ - ۲۹۹۰ - ۲۹۹۰ - ۲۹۹۰ - ۲۹۹۰ - ۲۹۹۰	days. Repeat as required.	i.	•				
Phytophthora and Pythium	Foliar spray	1/4 to 3/4 fl. oz. per gallon of water	Apply spray to thoroughly wet all foliage:		· · ·				
: ,,			Application intervals: 14 to 21 days. Repeat as				÷	-	
		· · · · · · · · · · · · · · · · · · ·	required. Note: Do not apply more than						

		500 gailons of spray solution per acre.	
Phytophthora and Pythium	Soil drench 1/4 to 1/2 tsp. per gallon of of water	Apply each gallon of solution to an area of 4 square feet. Follow application with irrigation. Repeat as required. Limit of one application per month.	

\*Not for use in California.

#### CONIFERS IN COMMERCIAL NURSERIES, PLANTATIONS AND FORESTS\* (INCLUDING CHRISTMAS TREES)

HM-0210-A applications in conjunction with good cultural management practices may be used for effective control of root rot (Phytophthora) in CONIFERS including, but not limited to, Pines, Spruce and Douglas Fir. Use higher rate of application when disease pressure is severe. Do not exceed recommended application rates or apply more frequently than stated on label or plant injury may occur. Do not apply to CONIFERS that are moisture or heat stressed.

	Applicatio	n	Application			_			
Disease	Method	Rate	Program	• •					
Phytophthora	Foliar spray	1.25 to2.5 pints per 100 gallon of water OR ¼ to 1/2 fl. oz. per gallon of water	) Apply spray to thoroughly wet all foliage. Application intervals: 14 to 21 days. Repeat as						·
	Soil Drench	1.25 to 2.5 pints per 100 gallons OR 1/4 to 1/2 fl. oz. per gallon	required. Apply 1 gallon of solution per square yard. Follow application with irrigation. Application intervals: 14 to 21 days. Repeat as required.			•	,	· ·	
	Bare root dipping al transplant-	OR	before transplanting, dip transplants for two minutes; keep roots		 I			<u></u>	

\*Not for use in California.

Do not graze livestock in treated areas of conifer nurseries or plantations. Do not feed forage from treated areas of plantations and or nurseries.

#### CONIFERS\* (Homeowner)

HM-0210-A applications in conjunction with good cultural management practices may be used for effective control of root rot (Phytophthora) in CONIFERS including, but not limited to, Pines, Spruce and Douglas Fir. Use higher rate of application when disease pressure is severe. Do not exceed recommended application rates or apply more frequently than stated on label or plant injury may occur. Do not apply to CONIFERS that are moisture or heat stressed.

	Applicatio	on .	Application					
Disease	Method	Rate	Program	· ·			·	
Phylophihora	Foliar	1/4 to 1/2 fl. oz. per	Apply spray to	,				
	spray	gallon	thoroughly wet all		•.	•		
		•	foliage. Application					•
		· ·	intervals: 14 to 21					
			days. Repeat as					
	Soil	¼ to ½ fl. oz. per	required. Apply					
	Drench	gallon	1 gallon of solution Per square yard.					
			Follow application					•
			with irrigation.					
			Application					
			intervals: 14 lo 21					
· · ·			days. Repeat as					
			required.					
·····	Bare root	1/4 fl. oz. per gallon	Immediately					•
	dipping at		before					
	transplant-		transplanting, dip					
	ing		transplants for two minutes; keep					
			roots					
			submerged and					

ensure root mass is thoroughly wet.

\*Not for use in California.

#### **ORNAMENTAL PEAR IN COMMERCIAL NURSERIES, PLANTATIONS\***

HM-0210-A applications in conjunction with good cultural management practices may be used for effective control of fire blight in ornamental pear, hawthorne, and pyracantha. Use higher rate of application when disease pressure is severe. Do not exceed recommended application rates or apply more frequently than stated on label or plant injury may occur. Do not apply to ROSES that are moisture or heat stressed.

Disease	Applicati Method	Rate ,	Application Program						. *
Fire blight	Foliar spray	1.5 pints per 100 gallons	First application pre- bloom. Application intervals: 7 days until end of bloom period. Apply spray to thoroughly wet all foliage.	-	· · ·			 	

\*Not for use in California.

#### **ORNAMENTAL PEAR\*** (Homeowner)

HM-0210-A applications in conjunction with good cultural management practices may be used for effective control of fire blight in ornamental pear, hawthorne, and pyracantha. Use higher rate of application when disease pressure is severe. Do not exceed recommended application rates or apply more frequently than stated on label or plant injury may occur. Do not apply to plants that are moisture or heat stressed.

Disease ·	Applicati Method	on Rate	Application Program	· .	
Fire blight	Foliar spray	1/4 fl. oz. per gallon	First application pre bloom. Application intervals: 7 days until end of bloom period. Apply spray to		•••••••••
•			thoroughly wet all foliage.		

Not for use in California.

#### **ROSES IN COMMERCIAL NURSERIES, PLANTATIONS\***

HM-0210-A applications in conjunction with good cultural management practices may be used for effective control of downy mildew (Peronospora sparsa) in ROSES including, but not limited to, container, field, landscape and mini varieties. Use higher rate of application when disease pressure is severe. Do not exceed recommended application rates or apply more frequently than stated on label or plant injury may occur. Do not apply to ROSES that are moisture or heat stressed.

Disease	Application Method	n Rate	Application Program			
Downy miłdew (Peronospora sparsa)	Foliar spray	1.5 pinis per 100 gallons of water OR 1/4 fl. oz. per gallon	Apply spray to thoroughly wet all foliage. Application			
		of water	intervals: 7 to 14 days. Repeat as required.	-		

\*Not for use in California

#### ROSES\* (Homeowner)

HM-0210-A applications in conjunction with good cultural management practices may be used for effective control of downy mildew (Peronospora sparsa) in ROSES including, but not limited to, container, field, landscape and mini varieties. Use higher rate of application when disease pressure is severe. Do not exceed recommended application rates or apply more frequently than stated on label or plant injury may occur. Do not apply to ROSES that are moisture or heat stressed.

		_					· · ·		
· · ·	Applicatio	n,		Application					
Disease	Method	Rate	<i></i>	Program	1	•			
Downy mildew	Foliar	1/4 fl./ oz. per	y din	Apply spray to	1	· ·		· -	• •

(Peronospora sparsa) spray gallon	thoroughly w	wet all	
	foliage. Application		•
	intervals: 7	to	
· ·	14 days. Re as required.		
*Not for use in California			

#### Not for use in Californ

#### **TURF\***

**HM-0210-A** may be used for effective control of Pythium and damping-off diseases of turf grasses on Golf courses, parks, commercial landscapes, commercial turf production, and sod farms. When conditions favor disease, begin preventative applications and repeat at recommended intervals. Use higher rate of application when disease pressure is severe.

Disease	Applicatio Method	n Rate	Application Program	
Pythium	Follar spray	3 to 7.5 fl. oz. per 1,000 square feet	Apply recommended quantity of product in 1 to 5 galion of water per 1,000 square feet. Ensure foliage is: thoroughly wet. Application intervals: 14 to 21 days. Repeat as required. Do not irrigate or mow treated areas until spray has completely dried.	

\*Not for use in California.

#### TURF\* (Homeowner)

**HM-0210-A** may be used for effective control of Pythium and damping-off diseases of turf grasses. When conditions favor disease, begin preventative applications and repeat at recommended intervals. Use higher rate of application when disease pressure is severe

Disease	Applicatio Method	Rate	Application Program	
Pythium	Foliar spray	3 to 7.5 fl. oz. per 1,000 square feet	Appiy recommended quantity of product in 1 to 5 gallon of water per 1,000 square feet. Ensure foliage is thoroughly wet. Application intervals: 14 to 21 days. Repeat as required. Do not irrigale or mow treated areas until spray has completely	

\*Not for use in California.

#### **TURF TANK MIXTURES\***

For the effective control of summer stress complex caused by a complex of Rhizoctonia and Pythium diseases, HM-0210-A should be tank mixed with Fore® WP fungicide and applied to turfgrasses on golf courses, parks, commercial landscapes, commercial turf production, and sod farms.

Product Disease	Rate per 1,000 square feet	Application Program	· · · · · · · · · · · · · · · · · · ·		
HM-0210-A Summer Stres + Complex FORE® (Rhizoctonia a	HM-0210-A	Apply recommended quantity of		· .	

•				26
WP**	Pythium spp.)	4 to 8 fl. oz. FOREØ WP	product in 1 to 5 gallons of water per 1,000 square feet as a foliar spray. Starl as a preventative spray at two-week intervals and repeat as required. Do not irrigate or mow treated areas untit spray has completely dried.	

\*Not for use in California.

\*\*Registered Trademark of Regal Chemicals

#### STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage and disposal. Do not contaminate other pesticides, fertilizers, water, food or feed by storage or disposal.

**Pesticide Storage:** Keep this product in containers stored upright and secured with the original closure. Do not store this product near any heat source. Do not store near strong oxidants. If transfer to another container becomes necessary, ensure that the container is clearly labeled, the container is a type suitable for the product, and is clean and free of other materials.

**Pesticide Disposal:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or hazardous waste representative at the nearest EPA Regional Office for guidance.

**Container Disposal:** Do not reuse empty container. Triple rinse (or equivalent) and 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.

In the event of a major spill, fire or other emergency, call 800-424-9300 day or night.

#### CONDITIONS OF SALE-LIMITED WARRANTY AND LIMITATIONS OF LIABILITY AND REMEDIES

Read the Conditions of Sale - Warranty and Limitations of Liability and Remedies before using this product. If the terms are not acceptable, return the product, unopened, and the full purchase price will be refunded.

The directions on this label are believed to be reliable and should be followed carefully. Insufficient control of pests and/or injury to the crop to which the product is applied may result from the occurrence of extraordinary or unusual weather conditions or the failure to follow the label directions or good application practices, all of which are beyond the control of Helena Chemical Company (the "Company") or seller. In addition, failure to follow label directions may cause injury to crops, animals, man or the environment. The Company warrants that this product conforms to the chemical description on the label and is reasonably fit for the purpose referred to in the directions for use subject to the factors noted above which are beyond the control of the Company. The Company makes no other warranties or representations of any kind, express or implied, concerning the product, including no implied warranty of merchantability or fitness for any particular purpose, and no such warranty shall be implied by law.

The exclusive remedy against the Company for any cause of action relating to the handling or use of this product shall be limited to, at Helena Chemical Company's election, one of the following:

1. Refund of the purchase price paid by buyer or user for product bought, or

2. Replacement of the product used

To the extent allowed by law, the Company shall not be liable and any and all claims against the Company are waived for special, indirect, incidental, or consequential damages or expense of any nature, including, but not limited to, loss of profits or income. The Company and the seller offer this product and the buyer and user accept it, subject to the foregoing conditions of sale and limitation of warranty, liability and remedies.

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