05/10/2011

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460



OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

Phyton Corporation c/o Wendy McCombie Lewis and Harrison 122C St, NW, Suite 740 Washington, DC 20001

MAY 1 0 2011

Subject:

Application for Pesticide Notification (PRN 98-10)

Submission date:

4/18/2011

Product Name:

Phyton-016-B

EPA Reg. No.:

49538-5

EPA Decision Number:

448294

Dear Ms. McCombie:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action(s) requested fall within the scope of PRN 98-10.

The Agency acknowledges the alternate/brand name of "Phyton 27AG."

The label submitted with the application has been stamped "Notification" and will be placed in our records. If you have questions concerning this letter, please contact Dominic Schuler at 703-347-0260 or via email at schuler.dominic@epa.gov

Sincerely,

Tony Kish

Product Manager 22

Fungicide Branch

Registration Division (7504P)

Please read instructions on reverse b	efore complet rm.		Form Approve	d, C No. 2070-0	0060, Approval expires 05-31-98
0	United States		☐ Registr		OPP Identifier Number
EPA E	nvironmental Protect	ion Agency			
			☐ Amend		
	Washington, DC 20	0460		NOTIFICATIO	N
	Applicat	ion for Pes	sticide – Section	n I	
Company/Product Number			Product Manager		Proposed Classification
Phyton-016-B		Tony F	(ish		
4. Company/Product (Name)		PM#			None Restricted
49538-5	AL DESCRIPTION OF THE PARTY OF	22			
5. Name and Address of Applicant	(Include ZIP Code)				ith FIFRA Section 3(c)(3)
Phyton Corporation		(b)(l), m	ny product is simila	ar or identical in	composition and labeling
5608 International Parkway		to:			
New Hope, MN 55428		EPA Re	eg. No		
PLEASE SEND ALL CO		Product	Name:		
"CONTACT POINT"	LISTED BELOW	110000		TARREST MARKET	
Check if this is a new	address				
		Sectio	n – II		
Amendment – Explain below	1.		Final printed la	abels in response	to Agency letter dated
Resubmission in response to	Agency letter dated		Me Too" Appl	ication	
Notification – Explain below.			Other - Expla	in below	
Explanation: Use addition	al page(s) if necessary	. (For Section	on I and Section II.)	
APPLICAT	TON FOR NOTIFICATI	ON: ALTER	NATE BRAND NA	ME - "PHYTO	N 27AG"
	cation of Alternate Br				
This notification is consistent with the pi	rovisions of PR Notice 98-10 an	nd EPA regulation	s at 40 CFR 152.46, and	d no other changes i	have been made to the labeling or the
confidential statement of formula of this p					
penalties under sections 12 and 14 of FIF		JI 1 102. 10, U.I.O. p.	Toddot may be in the	or mineral and a many	of the subject to small subject to subject t
2	- LAN				
Signature:	4			Date:	April 18, 2011
	THIS SUBMISS	ION IS NOT S	SUBJECT TO PRIA	FEES	
		Section	n – III		
Material This Product Will Be		1000	W + 0 + 1 + 5 -	la de la constanta de la const	O. Torre of Octobelians
Child-Resistant Packaging	Unit Packaging		Water Soluble Pac	kaging	2. Type of Container
Yes*	Yes		Yes		Metal
∐ No	No No		No No	N	Plastic
	If "Yes" Unit Packaging wgt.	No. per container	If "Yes" Package wgt.	No. per container	Glass
*Certification must	Office ackaging wgt.	Container	r ackage wgt.	Container	Paper
be submitted				L Valley of Market	Other (Specify)
Location of Net Contents Infor	mation 4. Size(s) Retail Contain	er	5. Location of	Label Directions
Label	Container			On Label	
				On labelii	ng accompanying product
6. Manner in Which Label is Affix	ced to Product Litho	graph	Other		
		er glued			
	_ Sten	ciled		In a variant state of	
		Section			3353
Contact Point (Complete items		ion of individual	to be contacted, if nec		
Name Wendy A. McCombie, L		itle			elephone No. (Include Area Code)
122 C Street, NW, Suite 740, W		Agent fo	or Phyton Corpor	ation	202-393-3903 x11
wmccombie@lewisharrison.c					T>> 0 0 1 3 3 3 3 3 1 11
1	Certifica				6. Date Application
I certify that the statements I have acknowledge that any knowingly under applicable law.					Received (Stämped)
2. Signature	2 5 1 1 2 1 1 1 1 1 2	3. Title			,,,,,
				ration	3 3
		Agen	it for Phyton Corpo	ration	222222
	u. Le	Agen	t for Phyton Corpo	oration	30000
4. Typed Name Wendy A. McCombie, Lewi		5. Date	April 18, 2011	oration	300000

LEWIS & HARRISON

122 C Street, N.W., Suite 740 Washington, D.C. 20001

telephone 202.393.3903 fax 202.393.3906

direct 202.393.3903 ext. 11 wmccombie@lewisharrison.com

Consultants in Government Affairs

April 18, 2011

HAND DELIVERED

Document Processing Desk [NOTIFY]
Office of Pesticide Programs (7504P)
US Environmental Protection Agency
Room S-4900, One Potomac Yard
2777 South Crystal Drive
Arlington VA 22202

ATTENTION:

Tony Kish

Product Manager, Team 22

SUBJECT:

Phyton Corporation

Phyton-016-B (EPA Reg. No. 49538-5)

Application for Notification –Alternate Brand Name This Submission Is NOT Subject to PRIA Fees

Dear Mr. Kish:

On behalf of Phyton Corporation ("Puronics"), I am submitting a Notification to register an Alternate Brand Name for Phyton-016-B (EPA Reg. No. 49538-5). The proposed Alternate Brand Name is as follows:

"Phyton 27AG"

Please find enclosed:

- 1) Application for Pesticide Notification (Form 8570-1);
- 2) One (1) copy of the master label bearing the alternate brand name; and,

Au. Lei

3) One (1) copy of the market label bearing the alternate brand name.

If you have any questions or need additional information, please contact me by telephone at 202-393-3903 x 11 or by e-mail at wmccombie@lewisharrison.com.

Thank you in advance for your assistance with this submission.

Sincerely,

Wendy A. McCombie Agent for,

Phyton Corporation

Enclosures

cc: Maria Melzer, Phyton Corporation

(MASTER LABEL)

NOTIFICATION MAY 1 0 2011

Phyton 27AG

SYSTEMIC BACTERICIDE & FUNGICIDE MITICIDE & INSECTICIDE & NEMATICIDE

Systemic, broad-spectrum bactericide & fungicide for the control of diseases in ornamental plants and nonbearing food crops grown in greenhouses, interiorscapes, field, container and forest nurseries, lath saran and shade houses, other enclosed structures, and residential and commercial landscapes.

ACTIVE INGREDIENT	
Copper Sulphate Pentahydrate*(CAS# 7758-99-8)	. 21.27%
OTHER INGREDIENTS	. <u>78.73%</u>
	100.00%
*Copper as Metallic5.4%	
Contains 2 06 lbs. Active Ingredient per gallon	

WARNING AVISO

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.)

> U.S. PATENT PENDING E.P.A. REG. NO. 49538-5 E.P.A. EST. NO. 49538-MN-001

> > Phyton Corporation 7440 West 78th St Bloomington, MN 55439 800-356-8733

www.phytoncorp.com

PHYSICAL OR CHEMICAL HAZARDS

For spills, you may contact CHEMTREC at 1-800-424-9300

FIRST AID

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

If in Eyes:

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

If Swallowed:

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

If 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.

Note to Physician: Skin symptoms may be similar to copper allergic reactions and can be treated similarly, including the use of steroid-containing lotion. If swallowed, probable mucosal damage may contraindicate the use of gastric lavage.

See side panel for additional precautionary statements.

NOTICE:

Our directions for use of this product are based upon tests believed to be reliable. The use of this product being beyond the control of the manufacturer, no guarantee, expressed or implied, is made as to the effects of such or the results to be obtained if not used in accordance with directions or established safe practice, including but not limited to over-fertilization or senescing plant tissue. Crop injury, lack of performance, or other unintended consequences may result because of such factors as use of the product contrary to label instructions, abnormal conditions, presence of other materials, the manner of application, or other factors, all of which are beyond the control of the manufacturer. All such risks shall be assumed by the buyer. To the extent consistent with applicable law the exclusive remedy is the product purchase price. Phyton 27AG is reported compatible with many registered pesticides. However, before adopting the use of additives and/or combinations for general applications, test for physical compatibility and noninjury under your conditions of use. To the extent consistent with applicable law the buyer must assume all responsibility, including injury or damage, resulting from its misuse as such or in combination with other materials as tank mix or applied separately.

PRECAUTIONARY STATEMENTS HAZARD TO HUMANS (& DOMESTIC ANIMALS)

Precautionary Statements

WARNING: Causes substantial but temporary eye injury. Harmful if swallowed or absorbed through the skin. Do not get into eyes or on clothing. Avoid contact with skin.

Personal Protective Equipment (PPE)

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

Mixers, loaders, applicators and other handlers must wear the following:

- Long-sleeved shirt and long pants
- Chemical resistant gloves
- Shoes and socks
- Goggles or face shield

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

USER SAFETY RECOMMENDATIONS

- User should wash hands before eating, drinking, chewing gum, using tobacco or using the
- User should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- User should remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing. Wash the outside of gloves before removing.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic invertebrates and may contaminate water through runoff. This product has a potential for runoff for several months or more after application. Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this product. . Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash-waters or rinsate.

Certain water conditions including low pH (≤6.5), low dissolved organic carbon (DOC) levels (3.0 mg/L or lower), and "soft" waters (i.e., alkalinity less than 50 mg/L), increases the potential acute toxicity to non-target aquatic organisms.

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 intervals. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not allow workers to enter into treated areas during the restricted entry interval (REI) of 48 hours.

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, wear: Coveralls

Shoes plus socks

Chemical-resistant gloves made of any waterproof material.

Protective eyewear

The restricted entry interval (REI) for greenhouse use is 24 hours if the following conditions are

For at least seven days following the application of copper sulfate pentahydrate in greenhouses: - At least one container or station designed specifically for flushing eyes is available in operating condition with the WPS-required decontamination supplies for workers entering the area treated with copper-containing products ,,,,,,,

Workers are informed orally, in a manner they can understand:

- that residues in the treated area may be highly irritating to their eyes

- that they should take precautions, such as refraining from rubbing their eyes, to keep the residues out of their eyes
- that if they do get residues in their eyes, they should immediately flush their eyes with the eyeflush container or eye flush station that is located with the decontamination supplies and how to operate the eyeflush container or eye flush station

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses 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 until the sprays have dried.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE— Do not freeze or store below 45° F. Store in original container.

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 the hazardous waste representative at the nearest EPA regional office for guidance. Open dumping is prohibited.

CONTAINER DISPOSAL— Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. 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 ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning, if available, or dispose of in a sanitary landfill, or by incineration if allowed by state and local authorities. Do not reuse these containers.

GENERAL—Consult federal, state or local disposal authorities for approved alternative procedures such as limited open burning.

PRODUCT INFORMATION

Phyton 27AG is a systemic bactericide & fungicide that when mixed with the appropriate volume of water, provides systemic, preventive and curative activity on a broad-spectrum of bacterial and fungal diseases listed on this label. Phyton 27AG will not leave any visible residue when mixed and applied according to the GENERAL DIRECTIONS listed on this label. Phyton 27AG may be applied by spray, drench, dip or injection.

USE DIRECTIONS

- 1. Shake well before mixing with water. Use within 48 hours after mixing.
- 2. Adjust pH of solution to 5.5 6.5.
- 3. Phyton 27AG can be applied with any type of application equipment that gives uniform coverage of all foliage, including ground, aerial, and low volume sprayers and chemigation equipment specified on this label. The volume of water needed will depend on the spray equipment and the size of the crop. Use in sufficient water to provide thorough coverage.
- 4. Low volume applications require conversion of ounces/volume to ounces/area.
- 5. Phyton 27AG can be used up to the time of harvest.

- 6. Metal piping or equipment used for application should be brass or stainless steel.
- 7. Compatible with most fungal and insecticidal biopesticides when applied at least 2 days before or after application of the biopesticide.
- 8. Do not tank mix Phyton 27AG with B-NINE and do not apply Phyton 27AG within seven (7) days either before or after applications of B-NINE, as burning of leaves may result.
- 9. Do not tank mix Phyton 27AG with strongly acidic compounds such as Aliette, and do not apply Phyton 27AG within 14 days either before or after applications of such products.
- 10. Phytotoxicity: Phyton 27AG has been tested on a wide variety of herbaceous and woody ornamental plants without phytotoxicity symptoms. However, because it is not possible to test all ornamental plant species, varieties and cultivars and because environmental factors and varietal stage of growth may affect phytotoxic expression, it is recommended that a small group of test plants be treated at the anticipated dosage rate and observed for 5 to 7 days to determine phytotoxicity before treating large numbers of those plants.
- 11. Safety on buds and open blooms: Phyton 27AG is safe to use at the lowest dosage rates on most buds and open blooms. It is recommended to treat a small group of test plants at the anticipated dosage rate and observe for to determine phytotoxicity before treating large numbers of those plants.
- 12. Liquid equivalents: one fluid ounce = 29.5 milliliters = 6 teaspoons.
- 13. Apply 100 gallons of Phyton 27AG use solution per acre of affected area to be treated.

SPRAY DRIFT MANAGEMENT

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

Droplet Size: Apply only as a medium or coarser spray (ASAE standard 572) or a volume mean diameter of 300 microns or greater for spinning atomizer nozzles.

Wind Speed: Do not apply at wind speeds greater than 15 mph. Only apply this product if the wind direction favors on-target deposition (approximately 3 to 10 mph), and there are no sensitive areas within 250 feet downwind.

Temperature Inversions: If applying at wind speeds less than 3 mph, 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.

Other State and Local Requirements: Applicators must follow all state and local pesticide drift requirements regarding application of copper compounds. Where states have more stringent regulations, they must be observed.

Equipment: All aerial and ground application equipment must be properly maintained and calibrated using appropriate carriers or surrogates.

For aerial application: 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.

For groundboom application: Do not apply with a nozzle height greater than 4 feet above the crop canopy.

SPECIFIC DIRECTIONS for Spray Applications in Greenhouse, Field, Landscape and Interior: Annual & Perennial Bedding Plants, Potted Flowering Crops, Tropical Foliage, Cut Flower Crops & Nursery Crops

Lower rates may be as effective as higher rates and should be tried first. Routine preventive programs may be maintained at the lower rates. Rates above 1.5 fl. oz. Phyton 27AG per 10 gallons water may damage some tender, open blooms. Use of low volume equipment is effective against Botrytis and not effective against established powdery mildew and Xanthomonas infections. Applications on actively growing tissue may be more effective than applications on dormant tissue.

For Easter Lillies: the maximum application rate is 2.5 lb. metallic copper per acre per application. The maximum annual application rate is 75 lbs metallic copper per acre per year. The minimum retreatment interval is 7 days. Do not apply any additional copper pesticide to this land for 36 months.

For All Other Ornamentals, The maximum application rate is 2.0 lb metallic copper per acre per application. The maximum annual application rate is 20 lbs metallic copper per acre per year. The minimum retreatment interval is 7 days.

CROP	PATHOGEN	RATE
Alyssum	Botrytis	1.0 - 2.0
	Downy Mildew	1.0 - 2.0
Argyranthemum	Botrytis	1.3 - 2.0
	Erwinia	1.3 - 2.0
Begonia	Botrytis	1.3 - 2.0
	Powdery Mildew	1.5 - 3.0
	Xanthomonas	1.5 - 3.0
Chrysanthemum	Botrytis	1.5 - 2.5
	Pseudomonas	1.5 - 2.5
Daylily	Botrytis	1.3 - 2.0
	Erwinia	1.5 - 2.5
	Powdery Mildew	1.5 - 2.5
Dusty Miller	Alternaria	1.5 - 2.5
	Botrytis	1.3 - 2.0
Fuchsia	Botrytis	1.3 - 2.0
	Powdery Mildew	1.3 - 2.5
Geranium	Botrytis	1.5 - 2.0
	Rust (preventive)	1.5 - 2.0
	Rust (therapeutic)	2.5 - 4.0
	Pseudomonas (preventive)	1.5 - 4.5
	Pseudomonas (therapeutic)	5.0
	Xanthomonas (preventive)	1.5 - 4.5
	Xanthomonas (therapeutic)	5.0
Hollyhock	Botrytis	1.3 - 2.0
	Powdery Mildew	1.5 - 2.5
	Rust	1.5 - 2.5
Hosta	Botrytis	1.5 - 2.0
	Erwinia	1.5 - 3.0

Impatiens	Alternaria	1.5 - 3.5
	Botrytis	1.3 - 1.5
	Powdery Mildew	1.3 - 2.5
	Pseudomonas	1.5 - 3.5
New Guinea	Botrytis	1.3 - 1.5
Impatiens	Powdery Mildew	1.3 - 2.0
Pachysandra	Botrytis	1.3 - 2.0
	Volutella	1.3 - 2.5
Pansy	Botrytis	1.3 - 2.0
	Cercospora	1.5 - 2.0
	Phytophthora	1.3 - 2.0
Periwinkle	Botrytis	1.3 - 2.0
	Phytophthora	1.5 - 2.0
Ranunculus	Bacterial Blight	1.3 - 2.0
	Botrytis	1.3 - 2.0
	Powdery Mildew	1.5 - 2.5

CROP		PATHO	OGEN	RATE
Snapdragon		Botrytis	Botrytis	
		Downy	Mildew	1.3 - 2.5
	市 (市) (市)	Rust		1.3 - 2.5
Zinnia		Botrytis	3	1.3 - 2.0
		Powde	ry Mildew	1.3 - 2.5
		Pseudo	omonas	1.3 - 2.5
		Xantho	Xanthomonas	
Additional Ann	uals	Botrytis		1.3 - 2.0
and Perennials:		Downy	Mildew	1.5 - 3.0
		Powde	ry Mildew	1.5 - 2.5
		Pseudo	omonas	1.5 - 2.5
Anenome	Aster	Bacopa	Baptisia	Carnation
Coleus	Columbine	Coneflower	Coreopsis	Cuphea
Dahlia	Daisy	Dianthus	Delphinium	Echinacea
Ipomoea	Lantana	Lead Plant	Liatris	Lobelia
Lupine	Marigold	Monarda	Ornamental Grasses	Pentas
Petunia	Phlox	Poppy	Prairie Smoke	Primrose
Pulmonaria	Rudbeckia	Salvia	Scabiosa	Sedum
Silphium	Verbena	Veronica	Vinca	Viola

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CROP	PATHOGEN	RATE
Oracaena	Rust	1.5 - 2.5
erns	Botrytis	1.3 - 2.0
	Erwinia	1.3 - 2.0
ibiscus	Botrytis	1.3 - 2.5
	Pseudomonas	1.5 - 2.5
	Xanthomonas	1.5 - 2.5
/y	Botrytis	1.3 - 2.0
	Xanthomonas	1.5 - 5.0
alms	Botrytis	1.3 - 2.0
	Erwinia	1.3 - 2.0
	Pseudomonas	1.3 - 2.5
	Xanthomonas	1.3 - 2.5
pathiphyllum	Botrytis	1.3 - 2.5
	Cylindrocladium	1.5 - 2.5
	Phytophthora	1.5 - 3.0
ropical Foliage	Botrytis	1.3 - 2.5
eneral)	Powdery Mildew	1.3 - 2.5
	Erwinia	2.0 - 5.0
	Pseudomonas	2.0 - 5.0
	Xanthomonas	2.0 - 5.0

CROP	PATHOGEN	RATE
African Violet	Botrytis	1.3 - 1.5
	Powdery Mildew	1.3 - 1.5
Azalea	Botrytis	1.3 - 2.5
	Colletotrichum	1.5 - 2.5
	Cylindrocladium	1.5 - 3.5
Calla lily	Botrytis	1.3 - 2.0
	Erwinia	1.3 - 2.0
Chrysanthemum	Botrytis	1.5 - 2.5
	Crown Gall	1.5 - 2.5
	Erwinia	1.5 - 2.5
	Powdery Mildew	1.5 - 2.5
Cineraria	Botrytis	1.3 - 2.0
Cyclamen	Botrytis	1.5 - 2.0
	Erwinia	1.5 - 2.0
Daffodil	Botrytis	1.3 - 2.0
Easter lily	Botrytis	1.3 - 2.0
Exacum	Botrytis	1.3 - 2.0
Gerbera	Botrytis	1.5 - 2.5
	Powdery Mildew	1.5 - 2.5
Gloxinia	Botrytis	1.3 - 2.0
Holiday Cactus	Botrytis	1.3 - 2.5
	Erwinia	1.5 - 5.0
	Pseudomonas	1.5 - 5.0
	Xanthomonas	1.5 - 5.0
Hyacinth	Botrytis	1.3 - 2.0

Hydrangea	Botrytis	1.3 - 2.5
	Powdery Mildew	1.3 - 2.5
Iris	Botrytis	1.3 - 2.0
	Erwinia	1.5 - 2.0
Kalanchoe	Botrytis	1.5 - 2.5
	Erwinia	1.5 - 3.5
	Powdery Mildew	1.5 - 3.5
Lisianthus	Botrytis	1.3 - 2.0
Orchid	Botrytis	1.3 - 1.5
	Erwinia	1.5 - 4.0
	Pseudomonas	1.5 - 4.0
	Xanthomonas	1.5 - 4.0
Poinsettia	Botrytis	1.5 - 2.0
	Scab	2.0 - 3.5
	Powdery Mildew (preventive)	1.5 - 2.0
	Powdery Mildew (therapeutic)	2.0 - 3.5
	Erwinia (preventive)	1.5 - 2.0
	Erwinia (therapeutic)	2.0 - 3.5
	Xanthomonas (preventive)	1.5 - 2.0
	Xanthomonas (therapeutic)	2.0 - 3.5

CROP	PATHOGEN	RATE
Primula	Botrytis	1.3 - 2.0
	Erwinia	1.5 - 2.0
Rose bush	Black Spot (preventive)	1.5 - 3.0
	Black spot (therapeutic)	3.5 - 5.0
	Botrytis (preventive)	1.5 - 2.0
	Botrytis (therapeutic)	2.5 - 5.0
	Cylindrocladium (preventive)	1.5 - 2.0
	Cylindrocladium (therapeutic)	2.5 - 5.0
	Downy Mildew (preventive)	1.5 - 2.0
	Downy Mildew (therapeutic)	2.5 - 5.0
	Powdery Mildew (preventive)	1.5 - 3.0
	Powdery Mildew (therapeutic)	3.5 - 5.0
Tulip	Botrytis	1.3 - 2.0

Dosages in fluid ounces F CROP	PATHOGEN	RATE
Alstromeria	Botrytis	1.3 - 1.5
Carnation	Botrytis	1.3 - 2.0
Chrysanthemum	Botrytis	1.5 - 2.5
Delphinium	Botrytis	1.3 - 1.5
Freesia	Botrytis	1.3 - 1.5
Gerbera	Botrytis	1.5 - 2.5
Gladiola	Botrytis	1.3 - 1.5
Lisianthus	Botrytis	1.3 - 2.0
Orchid	Botrytis	1.3 - 1.5
Rose	Botrytis	1.5 - 5.0
Snapdragon	Botrytis	1.3 - 2.0
Sweetpea	Botrytis	1.3 - 1.5

	hyton 27AG per 5 gallons water	
CROP	PATHOGEN	RATE
Alstromeria	Botrytis	3/4-1 tsp.
Carnation	Botrytis	2-3 tsp.
Chrysanthemum	Botrytis	2-3 tsp.
Delphinium	Botrytis	1-2 tsp.
Freesia	Botrytis	3/4-1 tsp.
Gerbera	Botrytis	2-3 tsp.
Gladiola	Botrytis	1.5 -3 tsp.
Orchid	Botrytis	2-3 tsp.
Rose	Botrytis	3-3 3/4 tsp.
Snapdragon	Botrytis	1-2 tsp.
Sweetpea	Botrytis	1-2 tsp.

SPECIFIC DIRECTION	NS for Bulb Applications	
Dip bulbs for 5 minutes	s, or spray bulbs to drip, then allow to dry b	efore planting.
Dosages in fluid ounce	es Phyton 27AG per 10 gallons water	
CROP	PATHOGEN	RATE
Calla Lily	Erwinia	3.0

CROP	PATHOGEN	RATE
Azalea	Anthracnose	1.5 - 2.5
	Botrytis	1.3 - 2.5
	Cylindrocladium	1.5 - 3.5
	Phytophthora	2.0 - 2.5
Buxus	Volutella	1.5 - 2.5
Cherry Laurel	Xanthomonas	2.0 - 3.5
Conifers	Botrytis	1.3 - 2.5
	Diplodia	1.0 - 1.3
Crape Myrtle	Botrytis	1.3 - 2.5
	Powdery Mildew	2.0 - 3.0
Dogwood	Anthracnose	2.0 - 3.0
	Botrytis	1.3 - 2.5
	Powdery Mildew	2.0 - 3.0
Elm .	Erwinia	2.0 - 4.0
uonymus	Anthracnose	1.5 - 3.0
	Botrytis	1.3 - 2.5
lawthorn	Cedar Apple Rust	1.5 - 2.5
lydrangea	Botrytis	1.3 - 2.5
	Cercospora	1.5 - 2.5
	Powdery Mildew	1.3 - 2.5
ndian Hawthorn	Botrytis	1.3 - 2.5
	Entomosporium	1.5 - 3.0
apanese Maple	Botrytis	1.3 - 2.5
	Verticillium	1.5 - 2.5
	Pseudomonas	1.5 - 2.5
uniper	Phomopsis	1.3 - 2.5
eyland Cypress	Cercospora	1.3 - 2.5
ilac	Botrytis	1.3 - 2.5
	Pseudomonas	1.3 - 2.5

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		Powdery Mildew		1.5 - 2.5
Nandina		Xanthomonas		1.5 - 2.5
Oak		Anthracnose		3.5
		Botrytis		1.3 - 2.5
Oak Trunk Spray		Phytophthora		3.0 - 4.5
Photinia		Entomosporium		1.5 - 3.0
Pinus		Dothistroma		1.5 - 2.5
Rosaceae such a	as:	Apple Scab		4.0
Cotoneaster, Ma	lus, Mountain	Botrytis		1.3 - 2.5
Ash, Ornamental	Crabapple,	Fireblight		2.0 - 4.0
Ornamental Pear	r, Pyracantha	Pseudomonas		1.5 - 3.5
Rhododendron		Botrytis		1.3 - 2.5
		Cylindrocladium		1.5 - 3.5
		Phytophthora		2.0 - 3.5
Rose	在第4人的是		wering Potted Cro	ps for Rates
Ruscus	12.62 1 172 1 127	Pseudomonas		1.3 - 2.5
Sycamore	A STATE OF THE STA	Anthracnose	The Park	3.5
		Botrytis		1.3 - 2.5
Viburnum		Botrytis		1.3 - 2.5
		Cercospora		1.5 - 2.5
		Phytophthora		2.0 - 2.5
Additional Nurse	erv	Botrytis	12 1 15 U X X X	1.3 - 2.5
Crops such as:	WEIGHT OF BETTE	Powdery Mildew		2.0 - 2.5
		Pseudomonas		1.5 - 3.5
		Rhizoctonia		1.3 - 2.5
Shrubs/Vines	7-7-1277			
Barberry	Bougainvillea	Clematis	Cornus	Cotinus
Forsythia	Gardenia	Holly	Paeonia	Philadelphus
Physocarpus	Potentilla	Ribes	Rosa	Spirea
Weigela	Wisteria			
Deciduous				
Acer	Amelanchier	Betula	Celtis	Cercis
Crataegus	Ficus	Fraxinus	Ginkgo	Gleditsia
Magnolia	Malus	Populus	Prunus	Pyrus
Tilia				
Conifers				
Abies	Juniper	Picea	Pinus	Pittosporum
Pseudotsuga	Taxus	Thuja	Tsuga	
	uit Trees and Vine			
		ar fruit within one yea	ar)	
Apple	Pear	Grape	Citrus	

SPECIFIC DIRECTIONS for Spray and Dip Applications during Propagation

When harvesting cuttings on site, spray or fog stock plants 1 to 2 days prior to taking cuttings. Spray cuttings to drench again at same rate 2 to 3 days after sticking in rooting media, or dip cuttings for a few seconds prior to sticking.

When using rooted, callused, or unrooted cuttings shipped in, spray cuttings to drench 2 to 3 days after planting or sticking, or dip cuttings for a few seconds prior to sticking. Under severe disease pressure, repeat in 7 to 10 days.

Dosages in	CI . I	and the same of th	DI 1	0740	40	- 11	
locade in	thing o	LIDCOC	Unidon	7/1/2	nor 10	aallone	MOTOR
DUSQUES III	HUIG U	UIIICES	FIIVIOII			UallOlls	Wale
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CROP	PATHOGEN	RATE
Azalea	Botrytis	1.3 - 2.5
	Cylindrocladium	1.5 - 3.5
Chrysanthemum	Botrytis	1.5 - 2.5
	Erwinia	1.5 - 2.5
Geranium	Botrytis	1.5 - 2.0
	Xanthomonas	1.5 - 5.0
Holiday Cactus	Botrytis	1.3 - 2.5
	Erwinia	1.5 - 2.0
Hydrangea	Botrytis	1.3 - 2.5
	Xanthomonas	1.5 - 2.5
Lavender	Botrytis	1.3 - 2.0
Mini-Rose	Botrytis	1.5 - 2.0
	Cylindrocladium	1.5 - 5.0
Poinsettia	Botrytis	1.5 - 2.0
	Erwinia	2.0 - 3.5
	Scab	2.0 - 3.5
	Xanthomonas	2.0 - 3.5
Tropical Foliage	Botrytis	1.3 - 2.5
	Cylindrocladium	1.5 - 2.5
	Erwinia	2.0 - 5.0

	s - Greenhouse, Field, Landscape &	k Interior
	Phyton 27AG per 10 gallons water	
CROP	PATHOGEN	RATE
African Violet	Phytophthora	1.3 - 2.0
Aster	Phytophthora	2.0 - 3.0
Azalea	Cylindrocladium	2.0 - 3.5
	Rhizoctonia	2.0 - 3.5
Calla Lily	Erwinia	1.5 - 3.0
Cyclamen	Erwinia	1.5
Ferns	Rhizoctonia	1.5 - 3.0
Geranium	Botrytis	2.0 - 3.5
Hosta	Erwinia	1.5 - 2.5
Impatiens	Phytophthora	2.0 - 3.5
Japanese Maple	Verticillium	2.5
Pansy	Phytophthora	1.5 - 2.5
	Pythium	1.5 - 2.5
Periwinkle	Phytophthora	1.5 - 2.0
Pittosporum	Rhizoctonia	1.5 - 2.0
Poinsettia	Phytophthora	1.5 - 2.5
	Rhizoctonia	2.0 - 3.5
Rhododendron	Rhizoctonia	2.0 - 3.5
Rose	Black Spot	2.0 - 3.5
_	Cylindrocladium	2.0 - 3.5
Spathiphyllum	Cylindrocladium	2.0 - 3.5
	Phytophthora	2.0 - 3.5
Vinca minor	Rhizoctonia	1.5 - 2.5

SPECIFIC DIRECTIONS for Spray Applications in Greenhouse, Nursery & Field: Fruit & **Vegetable Crops**

Spray for thorough foliage coverage. Lower rates may be as effective as higher rates and should be tried first. Routine preventive programs may be maintained at the lower rates. Use of low volume equipment is effective against Botrytis and not effective against established powdery mildew and Xanthomonas infections.

Greenhouse and Shadehouse Crops

	uid ounces Phyton 2	7AG per 10 g			
CROP	DISEASE	DOSAGE RATE (fl. oz.)	MAXIMUM INDIVIDUAL APPLICATION RATE (Ib Cu ²⁺ /A)	MAXIMUM ANNUAL APPLICATION RATE (Ib Cu ²⁺ /A)	MINIMUM INTERVAL
Cucumber	Gray Mold, Botrytis Downy Mildew Powdery Mildew	1.5 - 2.5	1.05	5.25	5 days
Eggplant	Gray Mold, Botrytis	1.5 - 2.0	0.79	7.9	7 days
Lettuce	Gray Mold, Botrytis	1.5 - 2.0	1.0	8.0	5 days
Pepper	Gray Mold, Botrytis Bacterial Spot, Xanthomonas	1.5 - 3.5	0.79	11.85	3 days
Tomato (processing)	Gray Mold, Botrytis Bacterial Speck, Pseudomonas Bacterial Spot, Xanthomonas Bacterial Wilt, Ralstonia Powdery Mildew	2.0 - 4.0	0.53	17.4	3 days
Tomato (fresh market)	Gray Mold, Botrytis Bacterial Speck, Pseudomonas Bacterial Spot, Xanthomonas Bacterial Wilt, Ralstonia Powdery Mildew	2.0 - 4.0	1.6	8.0	3 days
Dill	Gray Mold, Botrytis Powdery Mildew	1.0 - 2.0	0.79	3.95	7 days
Garlic	Gray Mold, Botrytis Powdery Mildew	1.0 - 2.0	1.0	6.0	7 days

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Mint,	Gray Mold,	1.0 - 2.0	0.53	2.65	10 days
Rosemary	Botrytis				

Tree Crops					-	
Dosages in fluid o	Dosages in fluid ounces Phyton 27AG per 10 gallons water					
CROP	DISEASE	RATE	MAXIMUM INDIVIDUAL APPLICATION RATE (lb Cu ²⁺ /A)	MAXIMUM ANNUAL APPLICATION RATE (Ib Cu ²⁺ /A)	MINIMUM INTERVAL	
Apple and Pear (Fall, late dormant)	Fire Blight, <i>Erwinia</i>	2.0 - 4.0	8.0	16.0	*	
Apple and Pear (Between silver- tip and green-tip)	Fire Blight, Erwinia	2.0 - 4.0	6.0	16.0	*	
Apple and Pear (Bloom, growing season)	Fire Blight, Erwinia	2.0 - 4.0	1.5	16.0	5 days	
*Only one applicat	tion per seasor	n is permitted.				

Citrus Crops				
Dosages in fluid ounces Phytor	n 27AG per 10 g	allons water		
DISEASE	RATE	MAXIMUM INDIVIDUAL APPLICATION RATE (Ib Cu ²⁺ /A)	MAXIMUM ANNUAL APPLICATION RATE (lb Cu ²⁺ /A)	MINIMUM INTERVAL
Anthracnose Melanose, <i>Diaporthe citri</i> Citrus Canker (suppression)	2.0 - 4.0	3.15	12.6	7 days

Grapes				
Dosages in fluid ounces Ph	yton 27AG per 10	gallons water		
DISEASÉ	RATE	MAXIMUM INDIVIDUAL APPLICATION RATE (Ib Cu ²⁺ /A)	MAXIMUM ANNUAL APPLICATION RATE (lb Cu ²⁺ /A)	MINIMUM INTERVAL
Gray Mold, Botrytis Powdery Mildew	1.5 - 2.5	3.0	20.0	3 days

SPECIFIC DIRECTIONS: NEMATICIDE Greenhouse, Field, Landscape and Interior Dosages in fluid ounces of Phyton 27AG per 10 gallons water				
Foliar Nematodes				
All hosts 3.2 on this label				
This dosage rate may damage open blooms. Where fungicide, bactericide dosage rate for host is lower, this higher rate may result in plant damage. Spray for thorough coverage. Make 3 applications at 2-week intervals.				

Greenhou	ECTIONS: MITICIDE, I se, Field, Landscape an nces of Phyton 27AG pe	d Interior	
Dosages in fluid ounces of Phyton 27AG per 10 gallons water Two-spotted White Fly Spider Mite Adults			
All hosts on this label	2.5	2.5	

This dosage rate may damage open blooms. Where fungicide, bactericide dosage rate for host is lower, this higher rate may result in plant damage. Lower rates may be effective.

SPECIFIC DIRECTIONS for Injection Applications: Shade & Ornamental Trees

ELM, Trunk injection, **Dutch elm disease** and **Cankers (Botryodiplodia Cytospora Tubercularia)**. Inject once during the growing season for control or prevention. Injection sites should be six inches or less above the soil line. Injection should not be done against Dutch elm disease if the elm appears more than 20% diseased or if the disease may have entered through root grafts from another diseased tree or stump. Remove dead and diseased limbs within 10 days after treatment.

Dosage by elm size (diameter at breast ht.)	Phyton 27AG fl. oz.	Water gallons
12 to 19 inches dbh	2	2
20 to 26 inches dbh	3	3
27 to 33 inches dbh	4	4
34 to 40 inches dbh	5	5
41 to 48 inches dbh	6	6

Use the red oak dosage for red (slippery) elm.

OAKS, Oak Wilt and **Phytophthora.** Trunk injection. On red oak, use preventively only. Follow injection directions for elm, taking care that holes are not too deep on shallow-barked oaks. Treatment is best in the month before fall color in northern climates.

Dosage by tree variety and size	Fluid Ounces Ph	Water	
	Red Oaks/Red Elm	Oaks	gallons
12 to 19 inches dbh	1.0	1.5	3
20 to 26 inches dbh	1.5	2.0	4.5
27 to 33 inches dbh	2.0	3.0	6
34 to 40 inches dbh	2.5	3.5	7.5
41 to 48 inches dbh	3.0	4.5	9

OAKS and SYCAMORE, Anthracnose. Trunk injection. Follow injection directions for elm, taking care that holes are not too deep on shallow barked oaks.

Dosage by tree	Fluid	Water		
variety and size	Red Oak	White Oak	Sycamore	gallons
12 to 19 inches dbh	1.0	1.5	1.5	3
20 to 26 inches dbh	1.5	2.0	2.0	4.5
27 to 33 inches dbh	2.0	3.0	3.0	6
34 to 40 inches dbh	2.5	3.5	3.5	7.5
41 to 48 inches dbh	3.0	4.5	4.5	9

SHADE TREE CANKERS. Cytospora on GREEN ASH, PAPER BIRCH, COTTONWOOD; Botryodiplodia and Cytospora on HACKBERRY, SILVER MAPLE; Nectria on HONEY LOCUST. Trunk injection. Follow injection directions for elm.

Dosage by tree size	Phyton 27AG fl. oz.	Water
10 inches dbh	1.3	1 gallon
20 inches dbh	2.5	2 gallons

USE DIRECTIONS FOR CHEMIGATION

The following precautions must be observed when using this product in any type of irrigation system:

Apply this product only through overhead sprinkler, including center pivot, lateral move, end tow, side (wheel) roll, big gun, solid set, or hand move; drip (trickle); or flood (basin) irrigation system(s).

Do not apply this product through any other type of irrigation equipment.

Metal piping or equipment used for application should be brass or stainless steel.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from nonuniform distribution of treated water.

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

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

A person knowledgeable of the chemigation system and responsible for its operation, or under supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

Agitation in the pesticide supply tank is recommended once every 2 hours and may be more frequent or continuous.

The dosage rate should not be diluted by additional water applied as irrigation. Apply the prescribed rate and allow foliar surfaces to dry before irrigating. If irrigation precedes Phyton 27AG application, allow foliage to drip off before beginning the application.

To optimize dilution of the pesticide in the supply tank, first add Phyton 27AG to a small amount of water, room temperature or warmer, and mix gently until evenly dispersed.

REQUIREMENTS FOR SPRINKLER & DRIP CHEMIGATION

Observe all the requirements in the USE DIRECTIONS FOR CHEMIGATION section and the following additional requirements:

The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.

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.

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 beyond the area intended for treatment.

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SYSTEMS CONNECTED TO PUBLIC WATER SYSTEMS

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, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve

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 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.

POSTING

Posting of areas to be chemigated is required when 1) any part of a treated area is within 300 feet of sensitive areas such as residential areas, labor camps, businesses, day care centers, hospitals, in-patient clinics, nursing homes, or any public areas such as schools, parks, playgrounds, or other public facilities not including public roads, or 2) when the chemigated area is open to the public such as golf courses or retail greenhouses.

Posting must conform to the following requirements. Treated areas shall be posted with signs at all usual points of entry and along routes of approach from the listed sensitive areas. When there are no usual points of entry, signs must be posted in the corner of the treated areas and in any other location affording maximum visibility to sensitive areas. The printed side of the sign should face away from the treated area towards the sensitive area. The signs shall be printed in English. Signs must be posted prior to application and must remain posted until foliage has dried and soil surface water has disappeared. Signs may remain in place indefinitely as long as they are composed of materials to prevent deterioration and maintain legibility for the duration of the posting period.

All words shall consist of letters at least 2 1/2 inches tall, and all letters and the symbol shall be a color which sharply contrasts with their immediate background. At the top of the sign shall be the words KEEP OUT, followed by an octagonal stop symbol at least 8 inches in diameter containing the word STOP. Below the symbol shall be the words PESTICIDES IN IRRIGATION WATER.

REQUIREMENTS FOR FLOOD CHEMIGATION

Observe all the requirements in the USE DIRECTIONS FOR CHEMIGATION section and the following additional requirements:

Systems using a gravity flow pesticide dispensing system must meter the pesticide into the water at the head of the field and downstream of a hydraulic discontinuity such as a drop structure or weir box to decrease potential for water source contamination from back flow if water flow stops.

Systems utilizing a pressurized water and pesticide injection system must meet the following requirements:

The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.

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.

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.



PRECAUTIONARY STATEMENTS HAZARD TO HUMANS (& DOMESTIC ANIMALS)

WARNING: Causes substantial but temporary eye injury. Do not get into eyes or on clothing. Harmful if swallowed. Harmful if absorbed through the skin. Avoid contact with skin. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals. Wear protective eyewear (goggles, face shield or safety glasses), long-sleeved shirt, long pants, shoes plus socks, and chemical resistant gloves made of any waterproof material. Wash thoroughly with soap and water after handling and before eating, drinking or using tobacco. Remove contaminated clothing and wash clothing before reuse. Food utensils such as teaspoons or tablespoons should not be used for food purposes after use with pesticides. Do not enter or allow children, pets or others to enter treated area 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. Do not apply this product in a way that will contact adults, children, or pets, either directly or through drift. Do not allow adults, children, or pets to enter the treated area until sprays have dried.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic invertebrates and may contaminate water through runoff. For terrestrial uses, do not apply directly to water. Do not contaminate water when disposing of equipment washwaters or rinsate.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE— Store in a secure, locked area away from pets and out of the reach of children. Store only in original container and place in a locked storage area. Keep away from excessive heat. Do not freeze or store below 45° F. Open dumping is prohibited.

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 the hazardous waste representative at the nearest EPA regional office for guidance. Open dumping is prohibited.

CONTAINER DISPOSAL

IF EMPTY: Nonrefillable containers. Do not reuse or refill container. Place in trash or offer for recycling if available.

IF PARTLY FILLED: Call your local solid waste agency or 1-800-CLEANUP for disposal instructions. Never place unused product down any indoor or outdoor drain.

DIRECTIONS for use in and around Homes, Yards, Gardens, Residential Landscapes and Home Greenhouses

Not for use on plants being grown for sale or other commercial use, for commercial seed production, or for research purposes.

- 1. Shake well before mixing with water. Use within 48 hours after mixing.
- 2. Phyton 27AG can be applied with any type of application equipment that gives uniform coverage of all foliage.
- 3. Metal equipment used for application should be brass or stainless steel.
- 4. Phytotoxicity: Phyton 27AG has been tested on a wide variety of herbaceous and woody ornamental plants without phytotoxicity symptoms. However, because it is not possible to test all ornamental plant species, varieties and cultivars and because environmental factors and varietal stage of growth may affect phytotoxic expression, it is recommended that a small group of test plants be treated at the anticipated dosage rate and observed for 5 to 7 days to

determine phytotoxicity before treating large numbers of those plants.

SPECIFIC DIRECTIONS for Spray Applications: Annual & Perennial Bedding Plants, Flowering Plants, Tropical Foliage Plants, & Trees, Vines & Shrubs

Spray for thorough foliage coverage. Re-spray rates and intervals vary with severity of disease and adversity of environmental conditions. In the event of heavy disease pressure, intervals can be shortened to 3 to 5 days. Lower rates may be as effective as higher rates and should be tried first. Routine preventive programs may be maintained at the lower rates. Rates above 1 teaspoon Phyton 27AG per 1 gallon water may damage some tender, open blooms. Applications on actively growing tissue may be more effective than applications on dormant tissue.

Tropical Foliage Plants			
Dosages in teaspoons Phyton 27AG per 1 gallon water			
PLANT	TARGET DISEASE RATE		
Ferns	Botrytis Erwinia	0.75 - 1.25	
Hibiscus	Botrytis Pseudomonas Xanthomonas	0.75 - 1.5	
lvy ·	Botrytis Xanthomonas	0.75 - 3.0	
Palms	Botrytis Erwinia Pseudomonas Xanthomonas	0.75 - 1.5	
Spathiphyllum	Botrytis Cylindrocladium Phytophthora	0.75 - 1.75	
Tropical Foliage (general)	Botrytis Powdery Mildew Erwinia Pseudomonas Xanthomonas	0.75 - 3.0	

PLANT	TARGET DISEASE	RATE	
African Violet	Botrytis Powdery Mildew	0.75 - 1.0	
Alstromeria	Botrytis	0.75 - 1.0	
Alyssum	Botrytis Downy Mildew	0.75 - 1.25	
Azalea	Botrytis Colletotrichum Cylindrocladium	0.75 - 2.0	
Begonia	Botrytis Powdery Mildew Xanthomonas	0.75 - 1.75	
Calla lily	Botrytis Erwinia	0.75 - 1.25	
Carnation	Botrytis	0.75 - 1.25	
Chrysanthemum	Botrytis Crown Gall Erwinia Powdery Mildew Pseudomonas	1.0 - 1.5	
Cineraria	Botrytis	0.75 - 1.25	
Cyclamen	Botrytis Erwinia	1.0 - 1.25	
Daffodil	Botrytis	0.75 - 1.25	
Daylily	Botrytis Erwinia	0.75 - 1.5	
Delphinium	Botrytis	0.75 - 1.0	
Easter lily	Botrytis	0.75 - 1.25	
Exacum	Botrytis	0.75 - 1.25	
Freesia	Botrytis	0.75 - 1.25	
Fuchsia	Botrytis Powdery Mildew	0.75 – 1.5	
Geranium	Botrytis Rust Pseudomonas Xanthomonas	1.0 – 3.0	
Gerbera	Botrytis Powdery Mildew	1.0 – 1.5	
Gloxinia	Botrytis	0.75 - 1.25	
Holiday Cactus	Botrytis Erwinia Pseudomonas Xanthomonas	0.75 - 3.0	

Poinsettia Poinsettia Botrytis Erwinia Powdery Mildew Scab Xanthomonas Primula Botrytis Erwinia Botrytis Erwinia Roses Black Spot Botrytis Cylindrocladium Downy Mildew Powdery Mildew Powdery Mildew	Flowering Plants	Phyton 27AG per 1 gallon wat	er
Hollyhock Botrytis Powdery Mildew Rust Hosta Botrytis Erwinia Hyacinth Botrytis Hydrangea Botrytis Botrytis Powdery Mildew Rust Botrytis Frwinia Hyacinth Botrytis Botrytis Powdery Mildew Impatiens Alternaria Botrytis Powdery Mildew Pseudomonas Iris Botrytis Erwinia Botrytis Erwinia Powdery Mildew Lisianthus Botrytis Botrytis Erwinia Powdery Mildew Lisianthus Botrytis Botrytis Botrytis Powdery Mildew Lisianthus Botrytis Botrytis Powdery Mildew Dorchid Botrytis Erwinia Pseudomonas Xanthomonas Pansy Botrytis Botrytis Phytophthora Periwinkle Botrytis Phytophthora Poinsettia Botrytis Phytophthora Botrytis Phytophthora Poinsettia Botrytis Erwinia Powdery Mildew Scab Xanthomonas Primula Botrytis Erwinia Botrytis Erwinia Powdery Mildew Scab Xanthomonas Primula Botrytis Botrytis Erwinia Downy Mildew Powdery Mildew			
Erwinia		Botrytis Powdery Mildew	
Hydrangea Botrytis Powdery Mildew Impatiens Alternaria Botrytis Powdery Mildew Pseudomonas Iris Botrytis Erwinia 1.0 - 2.0 Botrytis Erwinia 1.0 - 2.0 Erwinia Powdery Mildew Pseudomonas 1.0 - 2.0 Erwinia Powdery Mildew Lisianthus Botrytis 0.75 - 1.25 New Guinea Botrytis 0.75 - 1.25 Impatiens Powdery Mildew Orchid Botrytis 0.75 - 1.25 Powdery Mildew 0.75 - 1.25 Periwinia Pseudomonas Xanthomonas Pansy Botrytis 0.75 - 1.25 Periwinkle Botrytis 0.75 - 1.25 Phytophthora 0.75 - 1.25 Poinsettia Botrytis 1.0 - 2.0 Erwinia Powdery Mildew Scab Xanthomonas Primula Botrytis 1.0 - 2.0 Primula Botrytis 0.75 - 1.25 Erwinia Powdery Mildew Scab Xanthomonas Primula Botrytis 0.75 - 1.25 Erwinia Powdery Mildew Scab Xanthomonas Primula Botrytis 0.75 - 1.25 Erwinia Powdery Mildew Scab Xanthomonas Primula Botrytis 0.75 - 1.25 Botrytis Cylindrocladium Downy Mildew Powdery Mildew	Hosta		1.0 - 1.75
Powdery Mildew Impatiens Alternaria Botrytis Powdery Mildew Pseudomonas	Hyacinth	Botrytis	
Botrytis Powdery Mildew Pseudomonas Iris Botrytis Erwinia Kalanchoe Botrytis Erwinia Powdery Mildew Lisianthus Botrytis Impatiens Orchid Botrytis Powdery Mildew Botrytis Impatiens Orchid Botrytis Erwinia Pseudomonas Xanthomonas Pansy Botrytis Phytophthora Periwinkle Botrytis Powdery Mildew O.75 - 1.25 Phytophthora Periwinkle Botrytis Phytophthora Poinsettia Botrytis Erwinia Powdery Mildew Scab Xanthomonas Primula Botrytis Erwinia Botrytis Erwinia Powdery Mildew Scab Xanthomonas Primula Botrytis Botrytis Cylindrocladium Downy Mildew Powdery Mildew Snapdragon Botrytis Downy Mildew	Hydrangea		
Erwinia Kalanchoe Botrytis Erwinia Powdery Mildew Lisianthus Botrytis New Guinea Impatiens Orchid Botrytis Erwinia Powdery Mildew Orchid Botrytis Erwinia Pseudomonas Xanthomonas Pansy Botrytis Phytophthora Periwinkle Botrytis Phytophthora Botrytis Phytophthora Poinsettia Botrytis Erwinia Powdery Mildew Scab Xanthomonas Primula Botrytis Erwinia Powdery Mildew Scab Xanthomonas Primula Botrytis Erwinia Powdery Mildew Scab Cylindrocladium Downy Mildew Powdery Mildew	Impatiens	Botrytis Powdery Mildew	0.75 - 2.0
Erwinia Powdery Mildew Lisianthus Botrytis New Guinea Impatiens Orchid Botrytis Erwinia Pseudomonas Xanthomonas Pansy Botrytis Phytophthora Periwinkle Botrytis Phytophthora Poinsettia Botrytis Erwinia Pseudomonas Xanthomonas Dowdery Mildew Scab Xanthomonas Primula Botrytis Erwinia Powdery Mildew Scab Xanthomonas Primula Botrytis Erwinia Powdery Mildew Scab Xanthomonas Botrytis Erwinia Powdery Mildew Scab Xanthomonas Primula Botrytis Erwinia Powdery Mildew Scab Xanthomonas Botrytis Erwinia Roses Black Spot Botrytis Cylindrocladium Downy Mildew Powdery Mildew	Iris		0.75 - 1.25
New Guinea Impatiens Botrytis Powdery Mildew 0.75 - 1.25 Orchid Botrytis Erwinia Pseudomonas Xanthomonas 0.75 - 2.5 Pansy Botrytis Phytophthora 0.75 - 1.25 Periwinkle Botrytis Phytophthora 0.75 - 1.25 Poinsettia Botrytis Erwinia Powdery Mildew Scab Xanthomonas 1.0 - 2.0 Primula Botrytis Erwinia 0.75 - 1.25 Roses Black Spot Botrytis Cylindrocladium Downy Mildew Powdery Mildew 1.0 - 3.0 Snapdragon Botrytis Downy Mildew 0.75 - 1.5	Kalanchoe	Erwinia	1.0 - 2.0
Impatiens Powdery Mildew Orchid Botrytis Erwinia Pseudomonas Xanthomonas 0.75 - 2.5 Pansy Botrytis Phytophthora 0.75 - 1.25 Periwinkle Botrytis Phytophthora 0.75 - 1.25 Poinsettia Botrytis Erwinia Powdery Mildew Scab Xanthomonas 1.0 - 2.0 Primula Botrytis Erwinia 0.75 - 1.25 Roses Black Spot Botrytis Cylindrocladium Downy Mildew Powdery Mildew 1.0 - 3.0 Snapdragon Botrytis Downy Mildew 0.75 - 1.5	Lisianthus	Botrytis	
Erwinia Pseudomonas Xanthomonas Pansy Botrytis Phytophthora Periwinkle Botrytis Phytophthora Botrytis Erwinia Powdery Mildew Scab Xanthomonas Primula Botrytis Erwinia Powdery Mildew Scab Xanthomonas Primula Botrytis Cylindrocladium Downy Mildew Powdery Mildew Some Some Sorytis Cylindrocladium Downy Mildew Powdery Mildew			0.75 - 1.25
Periwinkle Periwinkle Botrytis Phytophthora Poinsettia Botrytis Erwinia Powdery Mildew Scab Xanthomonas Primula Botrytis Erwinia Botrytis Erwinia Powdery Mildew Scab Xanthomonas Primula Botrytis Cylindrocladium Downy Mildew Powdery Mildew Powdery Mildew Powdery Mildew Powdery Mildew Powdery Mildew Powdery Mildew Powny Mildew Powny Mildew Powny Mildew Powny Mildew	Orchid	Erwinia Pseudomonas	0.75 - 2.5
Poinsettia Poinsettia Botrytis Erwinia Powdery Mildew Scab Xanthomonas Primula Botrytis Erwinia Botrytis Erwinia Botrytis Cylindrocladium Downy Mildew Powdery Mildew Powdery Mildew Powdery Mildew Powdery Mildew Snapdragon Botrytis Downy Mildew Downy Mildew Downy Mildew Downy Mildew	Pansy		0.75 - 1.25
Erwinia Powdery Mildew Scab Xanthomonas Primula Botrytis Erwinia Roses Black Spot Botrytis Cylindrocladium Downy Mildew Powdery Mildew Powdery Mildew Snapdragon Botrytis Downy Mildew Downy Mildew	Periwinkle		0.75 - 1.25
Roses Black Spot 1.0 – 3.0 Botrytis Cylindrocladium Downy Mildew Powdery Mildew Snapdragon Botrytis 0.75 - 1.5 Downy Mildew	Poinsettia	Erwinia Powdery Mildew Scab	1.0 - 2.0
Botrytis Cylindrocladium Downy Mildew Powdery Mildew Snapdragon Botrytis Downy Mildew	Primula	1 -	0.75 - 1.25
Downy Mildew	Roses	Botrytis Cylindrocladium Downy Mildew	1.0 – 3.0
	Snapdragon	Downy Mildew	0.75 - 1.5
Sweet Pea Botrytis 0.75 - 1.0	Sweet Pea	Botrytis	0.75 - 1.0

Flowering Plants				
Dosages in teaspoons Phyton 27AG per 1 gallon water				
PLANT	TARGET	DISEASE	RATE	
Tulip	Botrytis		0.75 - 1.25	
Zinnia	Botrytis		0.75 - 1.25	
	Powdery I	Mildew		
	Pseudom	onas		
	Xanthomo	nas		
Additional Annuals	Botrytis		0.75 <i>-</i> 1.5	
and Perennials:	Downy Mi			
	Powdery I			
	Pseudom	onas		
Anenome	Aster	Carnation	Coleus	
Columbine	Coneflower	Coreopsis	Cuphea	
Dahlia	Daisy	Dianthus	Daylily	
Delphinium	Echinacea	Lantana	Liatris	
Lobelia	Lupine	Marigold	Monarda	
Ornamental Grasses	Pentas	Petunia	Phlox	
Poppy	Primrose	Ranunculus		
Salvia	Sedum	Verbena	Veronica	
Vinca	Viola			

Soil Drench Applications -				
Dosage in teaspoons of Phyton 27AG per 1 gallon water				
PLANT	TARGET DISEASE RATE			
African Violet	Phytophthora	0.75 - 1.25		
Azalea	Cylindrocladium	1.25 - 2.0		
	Rhizoctonia			
Cyclamen	Erwinia	1.0		
Ferns	Rhizoctonia	1.0 - 1.75		
Geranium	Botrytis	1.25 - 2.0		
Impatiens	Phytophthora	1.25 - 2.0		
Japanese Maple	Verticillium	1.5		
Periwinkle	Phytophthora	1.0 - 1.25		
Poinsettia	Rhizoctonia	1.25 - 2.0		
Rhododendron	Rhizoctonia	1.25 - 2.0		
Rose	Black Spot	1.25 - 2.0		
	Cylindrocladium			
Spathiphyllum	Cylindrocladium Phytophthora	1.25 - 2.0		

Trees, Shrubs & Vines	oton 27AC nor 4 cellen we	1	
PLANT	yton 27AG per 1 gallon wat TARGET DISEASE	RATE	
Azalea	Anthracnose Botrytis Cylindrocladium	0.75 - 2.0	
Cherry Laurel	Xanthomonas	1.25 - 2.0	
Conifers	Botrytis Diplodia	0.75 - 1.5	
Crape Myrtle	Botrytis Powdery Mildew	0.75 - 1.75	
Dogwood	Anthracnose Botrytis Powdery Mildew	0.75 - 1.75	
Elm	Erwinia	1.25 - 2.5	
Hydrangea	Botrytis Powdery Mildew	0.75 - 1.5	
Indian Hawthorn	Botrytis Entomosporium	0.75 - 1.75	
Japanese Maple	Botrytis Verticillium Pseudomonas	0.75 - 1.5	
Lilac	Botrytis Pseudomonas Powdery Mildew	0.75 - 1.5	
Oak	Anthracnose Botrytis	0.75 - 2.0	
Oak Trunk Spray	Phytophthora	1.75 - 2.75	
Photinia	Entomosporium	1.0 - 1.75	
Pinus	Dothistroma	1.0 - 1.5	
Rosaceae such as: Cotoneaster, Malus, Mountain Ash, Ornamental Crabapple, Ornamental Pear, Pyracantha	Apple Scab Botrytis Fireblight Pseudomonas	0.75 - 2.5	
Rhododendron	Botrytis Cylindrocladium	0.75 - 2.0	
Rose	See Flowering Plants for Rates		
Sycamore	Anthracnose Botrytis	0.75 - 2.0	

Trees, Shrubs & Vines				
Dosages in teaspoons Phyton 27AG per 1 gallon water				
PLANT		TARG	ET DISEASE	RATE
Additional Plants		Botryti	S	0.75 - 1.5
such as:		1	ery Mildew	
		Pseud	omonas	
Shrubs/Vines				
Barberry	Bougainv	illea	Clematis	Cornus
Euonymus	Forsythia		Holly	Paeonia
Philadelphus	Physocar	pus	Potentilla	Ribes
Rosa	Spirea		Viburnum	Weigela
Wisteria				
<u>Deciduous</u>				
Acer	Betula		Celtis	Cercis
Crataegus	Ficus		Fraxinus	Ginkgo
Gleditsia	Magnolia		Malus	Populus
Prunus	Pyrus		Tilia	
<u>Conifers</u>				
Abies	Juniper		Picea	Pinus
Pittosporum	Pseudotsuga		Taxus	Thuja
Tsuga				
Non-Bearing Fruit Trees and Vines				
(Do not apply to trees that will bear fruit within one year)				
Apple	Pear		Grape	Citrus

SPECIFIC DIRECTIONS for Spray Applications: Fruit & Vegetable Crops

Spray for thorough foliage coverage. Rates and intervals vary with severity of disease and environmental conditions. In the event of heavy disease pressure, shorten intervals to 3 to 5 days. Lower rates may be as effective as higher rates and should be tried first. Routine preventive programs may be maintained at the lower rates.

Greenhouse and Shadehouse Crops						
Dosages in fl	uid ounces Phyton 2	7AG per 10 ga	allons water			
CROP	DISEASE	DOSAGE RATE (fl. oz.)	MAXIMUM INDIVIDUAL APPLICATION RATE (Ib Cu ²⁺ /A)	MAXIMUM ANNUAL APPLICATION RATE (Ib Cu ²⁺ /A)	MINIMUM INTERVAL	
Cucumber	Gray Mold, Botrytis Downy Mildew Powdery Mildew	1.5 - 2.5	1.05	5.25	5 days	
Eggplant	Gray Mold, Botrytis	1.5 - 2.0	0.79	7.9	7 days	
Lettuce	Gray Mold, Botrytis	1.5 - 2.0	1.0	8.0	5 days	
Pepper	Gray Mold, Botrytis Bacterial Spot,	1.5 - 3.5	0.79	11.85	3 days	

NOTE – The following language is required for the Domestic/Homeowner version of the label:

	Xanthomonas				_
Tomato	Gray Mold,	2.0 - 4.0	0.53	17.4	3 days
(processing)	Botrytis				
	Bacterial Speck,	,			
	Pseudomonas				
	Bacterial Spot,				
	Xanthomonas				
	Bacterial Wilt,				
	Ralstonia				
	Powdery Mildew				
Tomato	Gray Mold,	2.0 - 4.0	1.6	8.0	3 days
(fresh	Botrytis				
market)	Bacterial Speck,				
	Pseudomonas				
	Bacterial Spot,				
	Xanthomonas				
	Bacterial Wilt,	:			
	Ralstonia				
	Powdery Mildew				
Dill	Gray Mold,	1.0 - 2.0	0.79	3.95	7 days
	Botrytis				
	Powdery Mildew				
Garlic	Gray Mold,	1.0 - 2.0	1.0	6.0	7 days
	Botrytis				
	Powdery Mildew				
Mint,	Gray Mold,	1.0 - 2.0	0.53	2.65	10 days
Rosemary	Botrytis				

Tree Crops	Tree Crops						
Dosages in fluid o	Dosages in fluid ounces Phyton 27AG per 10 gallons water						
CROP	DISEASE	RATE	MAXIMUM INDIVIDUAL APPLICATION RATE (Ib Cu ²⁺ /A)	MAXIMUM ANNUAL APPLICATION RATE (Ib Cu ²⁺ /A)	MINIMUM INTERVAL		
Apple and Pear (Fall, late dormant)	Fire Blight, Erwinia	2.0 - 4.0	8.0	16.0	*		
Apple and Pear (Between silver- tip and green-tip)	Fire Blight, Erwinia	2.0 - 4.0	6.0	16.0	*		
Apple and Pear (Bloom, growing season)	Fire Blight, Erwinia	2.0 - 4.0	1.5	16.0	5 days		
*Only one applica	tion per seasoı	n is permitted	•				

Citrus Crops						
Dosages in fluid ounces Phyton 27AG per 10 gallons water						
DISEASE	RATE	MAXIMUM	MAXIMUM	MINIMUM		
		INDIVIDUAL	ANNUAL	INTERVAL		

NOTE – The following language is required for the Domestic/Homeowner Assion of the label:

		APPLICATION RATE (lb Cu ²⁺ /A)	APPLICATION RATE (lb Cu ²⁺ /A)	
Anthracnose Melanose, Diaporthe citri Citrus Canker (suppression)	2.0 - 4.0	3.15	12.6	7 days

Grapes				
Dosages in fluid ounces Phy	ton 27AG per 10	gallons water		
DISEASE	RATE	MAXIMUM INDIVIDUAL APPLICATION RATE (Ib Cu ²⁺ /A)	MAXIMUM ANNUAL APPLICATION RATE (Ib Cu ²⁺ /A)	MINIMUM INTERVAL
Gray Mold, Botrytis Powdery Mildew	1.5 - 2.5	3.0	20.0	3 days

NOTIFICATION

MAY 1 0 2011

PRECAUTIONARY STATEMENTS HAZARD TO HUMANS (& DOMESTIC ANIMALS)

WARNING: Causes substantial but temporary eye injury. Harmful if swallowed or absorbed through the skin. Do not get into eyes or on clothing. Avoid contact with skin.

Personal Protective Equipment (PPE)

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

Mixers, loaders, applicators and other handlers must wear the following:

- Long-sleeved shirt and long pants
- Shoes and socks
- Goggles or face shield

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

USER SAFETY RECOMMENDATIONS

- User should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- User should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- User should remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing. Wash the outside of gloves before removing.

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 intervals. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard. Do not allow workers to enter into treated areas during the restricted entry interval (REI) of 48 hours.

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, wear: Coveralls

Shoes plus socks

Chemical-resistant gloves made of any waterproof material.

Protective eyewear

The restricted entry interval (REI) for greenhouse use is 24 hours if the following conditions are met:

For at least seven days following the application of copper sulfate pentahydrate in greenhouses:

 At least one container or station designed specifically for flushing eyes is available in operating condition with the WPS-required decontamination supplies for workers entering the area treated with copper-containing products

Workers are informed orally, in a manner they can understand:

- that residues in the treated area may be highly irritating to their eyes
- that they should take precautions, such as refraining from rubbing their eyes, to keep the residues out of their eyes
- that if they do get residues in their eyes, chay should immediately flush their eyes with the eyeflush container or eye flush station that is located with the decontamination supplies and how to operate the eye, usin container or eye flush station

PON-AGRICULTURAL USS REQUIREMENTS

The requirements in this box apply to uses 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 until the sprays have dried

Phyton 27AG

SYSTEMIC
BACTERICIDE & FUNGICIDE

KEEP OUT OF REACH OF CHILDREN WARNING AVISO

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.)

FIRST AID

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

If in Eves

- 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 Swallowed:

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

If 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.

Note to Physician: Skin symptoms may be similar to copper allergic reactions and can be treated similarly, including the use of steroid-containing lotion. If swallowed, probable mucosal damage may contraindicate the use of gastric lavage.

See side panel for additional precautionary statements.

Phyton Corporation 5608 International Parkway New Hope, MN 55428 800-356-8733



www.phytoncorp.com

U.S. PATENT PENDING E.P.A. REG. NO. 49538-5 E.P.A. EST. NO. 49538-MN-001

Net Contents:

PRODUCT INFORMATION

Phton 27AG is a systemic bactericide & fungicide that when mixed with the appropriate volume of water, provides systemic, preventive and curative activity on a broad-spectrum of bacterial and fungal diseases listed on this label. Phyton 27AG will not leave any visible residue when mixed and applied according to the GENERAL DIRECTIONS listed on this label. Phyton 27AG may be applied by spray, drench, dip or injection.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation. See attached booklet for directions for use

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic invertebrates and may contaminate water through runoff. This product has a potential for runoff for several months or more after application. Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this product. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated. Do not apply directly to water, to areas where surface water is present or to intertidal areas, the mean high water mark. Do not contaminate water when disposing of equipment wash-wair.

Certain water conditions including low pH (s6.5), low dissolved organic carbon (DOC) levels (3.0 mg/L or lower), and "soft" waters (i.e., alkalinity less than 50 mg/L), increases the potential acute toxicity to non-target aquatic organisms.

PHYSICAL OR CHEMICAL HAZARDS

For spills, you may contact CHEMTREC at 1-800-424-9300

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE— Do not freeze or store below 45° F. Store in original container.

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 the hazardous waste representative at the nearest EPA regional office for guidance. Open dumping is prohibited.

CONTAINER DISPOSAL.— Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. 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 ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning, if available, or dispose of in a sanitary landfill, or by incineration if allowed by state and local authorities. Do not reuse these containers.

GENERAL—Consult federal, state or local disposal authorities for approved altern procedures such as limited open burning.

Phyton 27AG

NOTIFICATION

MAY 1 0 2011

SYSTEMIC BACTERICIDE & FUNGICIDE

ACTIVE INGREDIENT	
Copper Sulphate Pentahydrate*(CAS# 7758-99-8)	21.27%
OTHER INGREDIENTS	<u>78.73%</u>
	100.00%
*Copper as Metallic5.4%	

WARNING AVISO

Contains 2.06 lbs. Active Ingredient per gallon

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.)

> U.S. PATENT PENDING E.P.A. REG. NO. 49538-5 E.P.A. EST. NO. 49538-MN-001

Phyton Corporation

5608 International Parkway New Hope, MN 55428 800-356-8733



www.phytoncorp.com

PHYSICAL OR CHEMICAL HAZARDS

For spills, you may contact CHEMTREC at 1-800-424-9300

Page 1 of 11

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- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
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Note to Physician: Skin symptoms may be similar to copper allergic reactions and can be treated similarly, including the use of steroid-containing lotion. If swallowed, probable mucosal damage may contraindicate the use of gastric lavage.

See side panel for additional precautionary statements.

NOTICE:

Our directions for use of this product are based upon tests believed to be reliable. The use of this product being beyond the control of the manufacturer, no guarantee, expressed or implied, is made as to the effects of such or the results to be obtained if not used in accordance with directions or established safe practice, including but not limited to overfertilization or senescing plant tissue. Crop injury, lack of performance, or other unintended consequences may result because of such factors as use of the product contrary to label instructions, abnormal conditions, presence of other materials, the manner of application, or other factors, all of which are beyond the control of the manufacturer. All such risks shall be assumed by the buyer. To the extent consistent with applicable law the exclusive remedy is the product purchase price. Phyton 27AG is reported compatible with many registered pesticides. However, before adopting the use of additives and/or combinations for general applications, test for physical compatibility and noninjury under your conditions of use. To the extent consistent with applicable law the buyer must assume all responsibility, including injury or damage, resulting from its misuse as such or in combination with other materials as tank mix or applied separately.



PRECAUTIONARY STATEMENTS HAZARD TO HUMANS (& DOMESTIC ANIMALS)

Precautionary Statements

WARNING: Causes substantial but temporary eye injury. Harmful if swallowed or absorbed through the skin. Do not get into eyes or on clothing. Avoid contact with skin.

Personal Protective Equipment (PPE)

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

Mixers, loaders, applicators and other handlers must wear the following:

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- Shoes and socks
- Goggles or face shield

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

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- User should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- User should remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing. Wash the outside of gloves before removing.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic invertebrates and may contaminate water through runoff. This product has a potential for runoff for several months or more after application. Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this product. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash-waters or rinsate.

Certain water conditions including low pH (≤6.5), low dissolved organic carbon (DOC) levels (3.0 mg/L or lower), and "soft" waters (i.e., alkalinity less than 50 mg/L), increases the potential acute toxicity to non-target aquatic organisms.

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 intervals. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not allow workers to enter into treated areas during the restricted entry interval (REI) of 48 hours.

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, wear:

Coveralls

Shoes plus socks

Chemical-resistant gloves made of any waterproof material.

Protective eyewear

The restricted entry interval (REI) for greenhouse use is 24 hours if the following conditions are met:

For at least seven days following the application of copper sulfate pentahydrate in greenhouses:

- At least one container or station designed specifically for flushing eyes is available in operating condition with the WPS-required decontamination supplies for workers entering the area treated with copper-containing products

Workers are informed orally, in a manner they can understand:

- that residues in the treated area may be highly irritating to their eyes
- that they should take precautions, such as refraining from rubbing their eyes, to keep the residues out of their eyes
- that if they do get residues in their eyes, they should immediately flush their eyes with the eyeflush container or eye flush station that is located with the decontamination supplies and
- how to operate the eyeflush container or eye flush station

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses 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 until the sprays have dried.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE— Do not freeze or store below 45° F. Store in original container.

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 the hazardous waste representative at the nearest EPA regional office for guidance. Open dumping is prohibited.

CONTAINER DISPOSAL— Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. 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 ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning, if available, or dispose of in a sanitary landfill, or by incineration if allowed by state and local authorities. Do not reuse these containers.

GENERAL—Consult federal, state or local disposal authorities for approved alternative procedures such as limited open burning.

PRODUCT INFORMATION

Phyton 27AG is a systemic bactericide & fungicide that when mixed with the appropriate volume of water, provides systemic, preventive and curative activity on a broad-spectrum of bacterial and fungal diseases listed on this label. Phyton 27AG will not leave any visible residue when mixed and applied according to the GENERAL DIRECTIONS listed on this label. Phyton 27AG may be applied by spray, drench, dip or injection.

USE DIRECTIONS

- 1. Shake well before mixing with water. Use within 48 hours after mixing.
- 2. Adjust pH of solution to 5.5 6.5.
- 3. Phyton 27AG can be applied with any type of application equipment that gives uniform coverage of all foliage, including ground, aerial, and low volume sprayers and chemigation equipment specified on this label. The volume of water needed will depend on the spray equipment and the size of the crop. Use in sufficient water to provide thorough coverage.
- 4. Low volume applications require conversion of ounces/volume to ounces/area.
- 5. Phyton 27AG can be used up to the time of harvest.
- 6. Metal piping or equipment used for application should be brass or stainless steel.
- 7. Compatible with most fungal and insecticidal biopesticides when applied at least 2 days before or after application of the biopesticide.
- 8. Do not tank mix Phyton 27AG with B-NINE and do not apply Phyton 27AG within seven (7) days either before or after applications of B-NINE, as burning of leaves may result.
- 9. Do not tank mix Phyton 27AG with strongly acidic compounds such as Aliette, and do not apply Phyton 27AG within 14 days either before or after applications of such products.
- 10. Phytotoxicity: Phyton 27AG has been tested on a wide variety of herbaceous and woody ornamental plants without phytotoxicity symptoms. However, because it is not possible to test all ornamental plant species, varieties and cultivars and because environmental factors and varietal stage of growth may affect phytotoxic expression, it is recommended that a small group of test plants be treated at the anticipated dosage rate and observed for 5 to 7 days to determine phytotoxicity before treating large numbers of those plants.
- 11. Safety on buds and open blooms: Phyton 27AG is safe to use at the lowest dosage rates on most buds and open blooms. It is recommended to treat a small group of test plants at the anticipated dosage rate and observe for to determine phytotoxicity before treating large numbers of those plants.
- 12. Liquid equivalents: one fluid ounce = 29.5 milliliters = 6 teaspoons.
- 13. Apply 100 gallons of Phyton 27AG use solution per acre of affected area to be treated.

SPRAY DRIFT MANAGEMENT

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

Droplet Size: Apply only as a medium or coarser spray (ASAE standard 572) or a volume mean diameter of 300 microns or greater for spinning atomizer nozzles.

Wind Speed: Do not apply at wind speeds greater than 15 mph. Only apply this product if the wind direction favors on-target deposition (approximately 3 to 10 mph), and there are no sensitive areas within 250 feet downwind.

Temperature Inversions: If applying at wind speeds less than 3 mph, 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.

Other State and Local Requirements: Applicators must follow all state and local pesticide drift requirements regarding application of copper compounds. Where states have more stringent regulations, they must be observed.

Equipment: All aerial and ground application equipment must be properly maintained and calibrated using appropriate carriers or surrogates.

For aerial application: 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.

For groundboom application: Do not apply with a nozzle height greater than 4 feet above the crop canopy.

SPECIFIC DIRECTIONS for Spray Applications in Greenhouse, Nursery & Field: Fruit & **Vegetable Crops**

Spray for thorough foliage coverage. Lower rates may be as effective as higher rates and should be tried first. Routine preventive programs may be maintained at the lower rates. Use of low volume equipment is effective against Botrytis and not effective against established powdery mildew and Xanthomonas infections.

Greenhouse and Shadehouse Crops

CROP	uid ounces Phyton 2 DISEASE	DOSAGE	MAXIMUM	MAXIMUM	MINIMUM
		RATE (fl. oz.)	INDIVIDUAL APPLICATION RATE (Ib Cu ²⁺ /A)	ANNUAL APPLICATION RATE (Ib Cu ²⁺ /A)	INTERVAL
Cucumber	Gray Mold, Botrytis Downy Mildew Powdery Mildew	1.5 - 2.5	1.05	5.25	5 days
Eggplant	Gray Mold, Botrytis	1.5 - 2.0	0.79	7.9	7 days
Lettuce	Gray Mold, Botrytis	1.5 - 2.0	1.0	8.0	5 days
Pepper	Gray Mold, Botrytis Bacterial Spot, Xanthomonas	1.5 – 3.5	0.79	11.85	3 days
Tomato (processing)	Gray Mold, Botrytis Bacterial Speck, Pseudomonas Bacterial Spot, Xanthomonas Bacterial Wilt, Ralstonia Powdery Mildew	2.0 - 4.0	0.53	17.4	3 days
Tomato (fresh market)	Gray Mold, Botrytis Bacterial Speck, Pseudomonas Bacterial Spot, Xanthomonas Bacterial Wilt, Ralstonia Powdery Mildew	2.0 - 4.0	1.6	8.0	3 days
Dill	Gray Mold, Botrytis Powdery Mildew	1.0 – 2.0	0.79	3.95	7 days
Garlic	Gray Mold, Botrytis	1.0 – 2.0	1.0	6.0	7 days

	Powdery Mildew				
Mint,	Gray Mold,	1.0 – 2.0	0.53	2.65	10 days
Rosemary	Botrytis				

CROP	DISEASE	RATE	MAXIMUM INDIVIDUAL APPLICATION RATE (Ib Cu ²⁺ /A)	MAXIMUM ANNUAL APPLICATION RATE (lb Cu ²⁺ /A)	MINIMUM INTERVAL
Apple and Pear (Fall, late dormant)	Fire Blight, Erwinia	2.0 - 4.0	8.0	16.0	*
Apple and Pear (Between silver- tip and green- tip)	Fire Blight, Erwinia	2.0 - 4.0	6.0	16.0	*
Apple and Pear (Bloom, growing season)	Fire Blight, Erwinia	2.0 – 4.0	1.5	16.0	5 days

Citrus Crops Dosages in fluid ounces Phyton 27AG per 10 gallons water						
DISEASE	RATE	MAXIMUM INDIVIDUAL APPLICATION RATE (Ib Cu ²⁺ /A)	MAXIMUM ANNUAL APPLICATION RATE (Ib Cu ²⁺ /A)	MINIMUM INTERVAL		
Anthracnose Melanose, <i>Diaporthe citri</i> Citrus Canker (suppression)	2.0 - 4.0	3.15	12.6	7 days		

Grapes Dosages in fluid ounces Phyton 27AG per 10 gallons water						
DISEASE	RATE	MAXIMUM INDIVIDUAL APPLICATION RATE (Ib Cu ²⁺ /A)	MAXIMUM ANNUAL APPLICATION RATE (Ib Cu ²⁺ /A)	MINIMUM INTERVAL		
Gray Mold, <i>Botrytis</i> Powdery Mildew	1.5 - 2.5	3.0	20.0	3 days		

USE DIRECTIONS FOR CHEMIGATION

The following precautions must be observed when using this product in any type of irrigation system:

Apply this product only through overhead sprinkler, including center pivot, lateral move, end tow, side (wheel) roll, big gun, solid set, or hand move; drip (trickle); or flood (basin) irrigation system(s).

Do not apply this product through any other type of irrigation equipment.

Metal piping or equipment used for application should be brass or stainless steel.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from nonuniform distribution of treated water.

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

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

A person knowledgeable of the chemigation system and responsible for its operation, or under supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

Agitation in the pesticide supply tank is recommended once every 2 hours and may be more frequent or continuous.

The dosage rate should not be diluted by additional water applied as irrigation. Apply the prescribed rate and allow foliar surfaces to dry before irrigating. If irrigation precedes Phyton 27AG application, allow foliage to drip off before beginning the application.

To optimize dilution of the pesticide in the supply tank, first add Phyton 27AG to a small amount of water, room temperature or warmer, and mix gently until evenly dispersed.

REQUIREMENTS FOR SPRINKLER & DRIP CHEMIGATION

Observe all the requirements in the USE DIRECTIONS FOR CHEMIGATION section and the following additional requirements:

The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.

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.

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 beyond the area intended for treatment.

SYSTEMS CONNECTED TO PUBLIC WATER SYSTEMS

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, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.

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 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.

POSTING

Posting of areas to be chemigated is required when 1) any part of a treated area is within 300 feet of sensitive areas such as residential areas, labor camps, businesses, day care centers, hospitals, in-patient clinics, nursing homes, or any public areas such as schools, parks, playgrounds, or other public facilities not including public roads, or 2) when the chemigated area is open to the public such as golf courses or retail greenhouses.

Posting must conform to the following requirements. Treated areas shall be posted with signs at all usual points of entry and along routes of approach from the listed sensitive areas. When there are no usual points of entry, signs must be posted in the corner of the treated areas and in any other location affording maximum visibility to sensitive areas. The printed side of the sign should face away from the treated area towards the sensitive area. The signs shall be printed in English. Signs must be posted prior to application and must remain posted until foliage has dried and soil surface water has disappeared. Signs may remain in place indefinitely as long as they are composed of materials to prevent deterioration and maintain legibility for the duration of the posting period.

All words shall consist of letters at least 2 1/2 inches tall, and all letters and the symbol shall be a color which sharply contrasts with their immediate background. At the top of the sign shall be the words KEEP OUT, followed by an octagonal stop symbol at least 8 inches in diameter containing the word STOP. Below the symbol shall be the words PESTICIDES IN IRRIGATION WATER.

REQUIREMENTS FOR FLOOD CHEMIGATION

Observe all the requirements in the USE DIRECTIONS FOR CHEMIGATION section and the following additional requirements:

Systems using a gravity flow pesticide dispensing system must meter the pesticide into the water at the head of the field and downstream of a hydraulic discontinuity such as a drop structure or weir box to decrease potential for water source contamination from back flow if water flow stops.

Systems utilizing a pressurized water and pesticide injection system must meet the following requirements:

The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.

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.

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.