NOTE - The following language is required for the Commercial/Agricultural version of th

## PRECAUTIONARY STATEMENTS HAZARD TO HUMANS (& DOMESTIC ANIMALS)

#### **Precautionary Statements**

DANGER: Corrosive. Causes irreversible eye damage and skin burns. May be fatal if swallowed. Harmful if absorbed through the skin. Do not get in eyes, on skin, or on clothing. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals.

#### Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

Coveralls over long-sleeved shirt and long pants

Chemical-resistant gloves made of any waterproof material, such as polyvinyl chloride, nitrile rubber or butyl rubber.

Chemical-resistant footwear plus socks

Protective eyewear. After product is diluted in accordance with the directions for use, protective eyewear is not required.

Chemical-resistant headgear for overhead exposure

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, use detergent and hot water. Keep and wash PPE separately from other laundry.

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

#### PRECAUTIONARY STATEMENTS

#### HAZARD TO HUMANS (& DOMESTIC ANIMALS)

DANGER: Corrosive, Causes irreversible eye damage and skin burns. May be fatal if swallowed, Harmful if absorbed through the skin. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals. Do not get in eyes, on skin or on clothing. 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.

NOTE - The following language is required for the Commercial/Agricultural version of the label:

#### USER SAFETY RECOMMENDATIONS

Users should:

Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

NOTE - The following language is required for the Commercial/Agricultural version of the label:

#### 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.

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

#### 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 any person or pet



#### ACTIVE INGREDIENT

 Copper Sulphate Pentahydrate\*
 .21.36%

 INERT INGREDIENTS
 .78.64%

 100.00%
 \*Copper as Metallic

 5.5%
 Contains 2.06 lbs. Active Ingredient per gallon

# DANGER PELIGRO

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

> U.S. PAT. NO. 4,673,687 E.P.A. REG. NO. 49538-2 E.P.A. EST. NO. 49538-MN-001

#### Source Technology Biologicals, Inc.

7449 Cahill Road Edina, MN 55439 800-356-8733

#### FIRST AID

#### 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 eye.
- Call a poison control center or doctor for treatment advice.

#### If on Skin or Clothing:

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or doctor for treatment advice.
- If product diluted in accordance with the directions for use gets on skin, medical attention is not required.

#### If Swallowed:

- Call a poison control center or doctor immediately for treatment advice.
- Drink promptly a large quantity of milk, egg white, gelatin solution, or, if these are unavailable, 1 or 2 glasses of water.
- 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.

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

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. Have patient drink large quantities of milk, egg white, gelatin solution, or if these are unavailable, 1 or 2 glasses of water.

See side panel for additional precautionary statements.

#### **ENVIRONMENTAL HAZARDS**

This product is toxic to fish. 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 washwaters.

#### PHYSICAL OR CHEMICAL HAZARDS

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

ACCEPTED with COMMENTS In EPA Letter Dated:

FR 7 200

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

49538-2

MASTER LABEL (#49538-2) Revised: 11/08/2001

Page 1 of 7

#### 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 24 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 over long-sleeved shirt and long pants

Chemical-resistant footwear plus socks

Chemical-resistant gloves made of any waterproof material, such as polyvinyl chloride, nitrile rubber or butyl rubber.

NOTE - The following language is required for the Commercial/Agricultural version of the label:

#### 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.

Keep children and pets off treated area until dry.

Do not enter treated area without protective clothing until the sprays have dried.

NOTE - The following language is required for the Commercial/Agricultural version of the label:

#### STORAGE AND DISPOSAL

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

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**—Triple rinse (or equivalent). Then offer for recycling or reconditioning 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.

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

#### STORAGE AND DISPOSAL

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

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.

IF EMPTY: Do not reuse this 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.

#### NOTICE:

Our recommendations 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. The exclusive remedy is the product purchase price. Phyton-27° 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. 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.

NOTE - The following language is required for the Commercial/Agricultural version of the label:

#### USE DIRECTIONS FOR CHEMICATION

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

Apply this product only through overhead sprinklers, mist-type irrigation such as fog systems, and hand-held calibrated irrigation equipment such as the hand-held wand with injector.

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-27<sup>s</sup> application, allow foliage to drip off before beginning the application.

To optimize dilution of the pesticide in the supply tank, first add Phyton-27<sup>6</sup> to a small amount of water, room temperature or warmer, and mix gently until evenly dispersed.

NOTE - The following language is required for the Commercial/Agricultural version of the label:

#### REQUIREMENTS FOR SPRINKLER CHEMIGATION

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.

- Shake well before mixing with water. Use within 48 hours after mixing.
- 2. Adjust pH of solution to 5.5 6.5.
- 3. Phyton-27\* 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.
- Low volume applications require conversion of ounces/volume to ounces/ area.
- Phyton-27<sup>e</sup> can be used up to the time of harvest.

#### **GENERAL DIRECTIONS**

- Metal piping or equipment used for application should be brass or stainless steel.
- 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-27° with B-NINE and do not apply Phyton-27° within seven (7) days either before or after applications of B-NINE, as burning of leaves may result.
- Do not tank mix Phyton-27\* with strongly acidic compounds such as Aliette, and do not apply Phyton-27\* within 14 days either before or after applications of such products.

10. Phytotoxicity: Phyton-27° 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.

Liquid equivalents: one fluid ounce = 29.5 milliliters = 6 teaspoons.

# 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

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 1.5 fl. oz. Phyton-27° per 10 gallons water may damage some tender, open blooms. Rates up to 7 fl. oz. Phyton-27° per 10 gallons water can be used for powdery mildew on roses if no blooms are open. 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 domant tissue.

## Annual & Perennial Bedding Plants

such as but not limited to:

Dosages in fluid ounces Phyton-27th per 10 gallons water

CROP	PATHOGEN	RATE
Alyssum	Botrytis	1.0 - 2.0
	Downy Mildew	1.0 - 2.0
Begonia	Botrytis	1.3 - 2.0
	Powdery Mildew	1.5 - 3.0
	Xanthomonas	1.5 - 3.0
Chrysanthemum	Pseudomonas	1.5 - 2.5
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 - 5.0
	Pseudomonas (preventive)	1.5 - 4.5
	Pseudomonas (therapeutic)	5.0
	Xanthomonas (preventive)	1.5 - 4.5
	Xanthomonas (therapeutic)	5.0
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
Pansy	Botrytis	1.3 - 2.0
	Phytophthora	1.3 - 2.0
Periwinkle	Botrytis	1.3 - 2.0
	Phytophthora	1.5 - 2.0
Snapdragon	Botrytis	1.3 - 2.0
	Downy Mildew	1.3 - 2.5
	Rust	1.3 - 2.5
Zinnia	Botrytis	1.3 - 2.0
	Powdery Mildew	1.3 - 2.5
	Pseudomonas	1.3 - 2.5
	Xanthomonas	1.3 - 2.5

#### **Potted Flowering Crops**

such as but not limited to:

Dosages in fluid ounces Phyton-27® per 10 gallons water

		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
Caila 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

# 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.

## Herbaceous & Woody Stock Plants and Cuttings

such as but not limited to:

Dosages in fluid ounces Phyton-276 per 10 gallons water

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
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

## SPECIFIC DIRECTIONS for Bulb Dip Applications

Dip bulbs for 5 minutes and allow to dry before planting.

Dosages in fluid ounces Phyton-27® per 10 gallons water				
CROP	PATHOGEN	RATE		
Calla Lily	Erwinia	3.0		

Page 3 of 7

		al Bedding Plants ( ces of Phyton-27®	•	water
CROP		PATHOGEN		RATE
Additional Ann	uals	Botrytis		1.3 - 2.0
and Perennials	i:	Powdery Mildew	/	1.5 - 2.5
Anenome	Asi	ter	Camation	Coleus
Columbine	Co	neflower	Coreopsis	Cuphea
Dahlia	Dа	isy	Dianthus	Daytily
Delphinium	Ec	hinacea	Hollyhock	Lantana
Liatris	Lol	pelia	Lupine	Marigold
Monarda	Ornamental Grasses		Pentas	Petunia
Phlox	Po	DDY	Primrose	Ranunculus
Rudbeckia	Sal		Sedum	Verbena
Veronica	Vin	ca	Viola	

	es of Phyton-27® per 10 g	7 5 1 5 5
CROP	PATHOGEN	RATE
Azalea	Cylindrocladium	2.0 - 3.5
	Rhizoctonia	2.0 - 3.5
Cyclamen	Erwinia	1.5
Ferns	Rhizoctonia	1.5 - 3.0
Geranium	Botrytis	2.0 - 3.5
Impatiens	Phytophthora	2.0 - 3.5
Japanese Maple	Verticillium	2.5
Perlwinkle	Phytophthora	1.5 - 2.0
oinsettia	Rhizoctonia	2.0 - 3.5
Rhododendron	Rhizoctonia	2.0 - 3.5
Rose	Black Spot	2.0 - 3.5
	Cylindrocladium	20-35
Spathiphyllum	Cylindrocladium	2.0 - 3.5
-	Phytophthora	2.0 - 3.5

# SPECIFIC DIRECTIONS for Post-Harvest Dip Applications on Cut Flower Crops

Dip cut flowers/buds for a few seconds soon after cutting. Dosages in teaspoons Phyton-27® 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.
Orchid	Botrytis	2-3 tsp.
Rose	Botrytis	3-3 3/4 tsp
Snapdragon	Botrytis	1-2 tsp.
Sweetpea	Botrytis	1-2 tsp.

ROP	PATHOGEN	RATE
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
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

	Powdery Mildew (preventive)	1.5 - 3.0
	Powdery Mildew (therapeutic)	3.5 - 5.0
Tulip	Botrytis	1.3 - 2.0
Tropical Fol such as but not Dosages in fluid	-	s water
CROP	PATHOGEN	RATE
Ferns	Botrytis	1.3 - 2.0
	Erwinia	1.3 - 2.0
Hibiscus	Botrytis	1.3 - 2.5
	Pseudomonas	1.5 - 2.5
	Xanthomonas	1.5 - 2.5
lvy	Botrytis	1.3 - 2.0
	Xanthomonas	1.5 - 5.0
Palms	Botrytis	1.3 - 2.0
	Erwinia	1.3 - 2.0
	Pseudomonas	1.3 - 2.5
	Xanthomonas	1.3 - 2.5
Spathiphyllum	Botrytis	1.3 - 2.5
	Cylindrocladium	1.5 - 2.5
	Phytophthora	1.5 - 3.0
Tropical Foliage	Botrytis	1.3 - 2.5
(general)	Powdery Mildew	1.3 - 2.5
	Erwinia	2.0 - 5.0
	Pseudomonas	2.0 - 5.0
	Xanthomonas	2.0 - 5.0

<b>Cut Flower Cre</b>	ps	
such as but not limit	ed to:	
Dosages in fluid our	nces Phyton-27® per 10 ;	gallons water
CROP	PATHOGEN	RATE
Alstromerla	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
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

CROP Azalea		) PAI	HOGEN	RATE	
			racnose	1.5 - 2.5	
		Botr	vtis	1.3 - 2.5	
		Cylin	ndrocladium	1.5 - 3.5	
Cherry Laurel		Xan	thornonas	2.0 - 3.5	
Conifers		Both	ytis	1.3 - 2.5	
		Diplo	odia	1.0 - 1.3	
Crape Myrtle		Botr	ytis	1.3 - 2.5	
		Pow	dery Mildew	2.0 - 3.0	
Dogwood		Botr		1.3 - 2.5	
			dery Mildew	2.0 - 3.0	
Elm		Erwi		2.0 - 4.0	
Hydrangea		Botr		1.3 - 2.5	
			dery Mildew	1.3 - 2.5	
Indian Hawthorn		Botr		1,3 - 2.5	
<del>,</del>			mosparium	1.5 - 3.0	
Japanese Maple		Botr		1.3 - 2.5	
			cillium	1.5 - 2.5	
1.11			idomonas	1.5 - 2.5	
Lilac		Both		1.3 - 2.5	
			udomonas	1.3 - 2.5	
Oak			dery Mildew	1.5 - 2.5	
Oak		Both	racnose	3,5 1,3 - 2.5	
Photinia				1.5 - 3.0	
Pinus		Entomosporium Dothistroma Apple Scab		1.5 - 2.5 4.0	
Rosaceae such a	8.				
Cotoneaster, Mal		Both		1.3 - 2.5	
Mountain Ash.	,		olight	2.0 - 4.0	
Omamental Crab	apole.		udomonas	1.5 - 3.5	
Ornamental Pear					
Pyracantha			į		
Rhododendron		Botn	ytis	1.3 - 2.5	
			ndrocladium	1.5 - 3.5	
Rose		See	Flowering Potted	Crops for Rates	
Sycamore		Anth	racnose	3.5	
		Both	ytis	1.3 - 2,5	
Additional Nurser	y		1		
Crops such as:		Both	ytis	1.3 - 2.5	
Shrubs/Vines	_		<b>A</b> 1	0	
Barberry	Forsyt	invillea	Clematis	Comus Paeonia	
Euonymus Philadelphus	Physo		Holly Potentilla	Ribes	
Rosa	Spirea		Viburnum	Weigela	
Wisteria	Oplica		112411411	170.90.0	
Deciduous					
Acer	Betula		Celtis	Cercis	
Crataegus	Ficus		Fraxinus	Ginkga	
Gleditsia	Magno	ilia	Malus	Populus	
Prunus	Pyrus		Tilia		
Conifers			D:	D)	
Abies	Junipe		Picea	Pinus Thuàn	
Pittosporum	Pseud	otsuga	Taxus	Thuja	
Tsuga Non-Bearing Frui	t Trees :	and Vines			

Page 4 of 7

TE - The following language is required for the Comm

Agricultural version of the label:

## SPECIFIC DIRECTIONS for Injection Applications: Shade & Ornamental Trees

ELM, Trunk injection, Dutch elm disease and Cankers (Botryodipiodia 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 limits within 10 days after treatment.

Dosage by elm size (diameter at breast ht.)	Phyton-27° . fl. oz.	Water gallons
12 to 19 inches dbh	2	2
20 to 26 inches dbh	3	3
27 to 33 inches don	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	Fluid Ounces Phy	Γ	
variety and size	Red Oaks/Red Elm	Qaks	Water
12 to 19 inches dbh	1 ounces	1.5 o⊔nces	3 galions
20 to 26 inches dbh	1.5 ounces	2 ounces	4.5 gallons
27 to 33 inches dbh	2 ounces	3 ounces	6 gallons
34 to 40 inches doh	2.5 ounces	3.5 punces	7.5 gallons
41 to 48 inches dbh	3 ounces	4.5 ounces	9 galions

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

Dosage by tree	Fluid			
variety and size	Red Oak	White Oak	Sycamore	Water
12 to 19 inches dbh	1 ounce	1.5 ounces	1.5 ounces	3 gallons
20 to 26 inches dbh	1.5 ounces	2 ounces	2 ounces	4.5 gallons
27 to 33 inches dbh	2 ounces	3 ounces	3 ounces	6 gallons
34 to 40 inches dbh	2.5 ounces	3.5 ounces	3.5 punces	7.5 gallons
41 to 48 inches dbh	3 ounces	4.5 gunces	4.5 ounces	9 gallons

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-27° ff. oz.	Water
10 inches dbh	1.3 ounces	1 gallon
20 inches dbh	2.5 ounces	2 gallons

NOTE - The following language is required for the Commercial/Agricultural version of the label:

SPECIFIC DIRECTIONS: MITICIDE, INSECTICIDE
Greenhouse, Field, Landscape and Interior

Dosages in fluid ounces of Phyton-27 per 10 gallons water

Two-spotted White Fly
Spider Mite Adults
2.5 2.5

All hosts 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. Lower rates may be effective.

SPECIFIC DIRECTIONS: NEMATICIDE

Greenhouse, Field, Landscape and Interior Dosages in fluid ounces of Phyton-27 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.

#### 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.

### GENERAL 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.
- Phyton-27° 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-27<sup>6</sup> 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-27° per 1 gallon water may damage some tender, open blooms. Applications on actively growing tissue may be more effective than applications on dormant tissue.

PLANT	TARGET DISEASE	RATE	
Ferns	Botrytis	0.75 - 1.25	
	Erwinia		
Hibiscus	Botrytis	0.75 - 1.5	
	Pseudomonas		
	Xanthomonas		
lvy	Botrytis	0.75 - 3.0	
	Xanthomonas		
Palms	Botrytis	0.75 - 1.5	
	Erwinia		
	Pseudomonas		
	Xanthomonas		
Spathiphyllum	Botrytis	0.75 - 1.75	
	Cylindrocladium		
	Phytophthora		
Tropical Foliage	Botrytis	0.75 - 3.0	
(general)	Powdery Mildew		
	Erwinia		
	Pseudomonas		
	Xanthomonas		

Flowering Plan	
such as but not limite	ed to:
	s Phyton-27* per 1 gallon
PLANT	TARGET DISEASE
African Violet	Botrytis
	Powdery Mildew
Alstromeria	Botryts
Alyssum	Botrytis
	Downy Mildew
Azalea	Botrytis
	Colletotrichum
	Cylindrocladium
Begonia	Botrytis
	Powdery Mildew
	Xanthomonas
Calla IIIy	Botrytis
	Erwinia
Camation	Botrytis
Chrysanthemum	Botrytis
	Crown Gall
	Erwinia
	Powdery Mildew
	Pseudomonas
Cineraria	Botrytis
Cyclamen	Botrytis
	Erwinia
Daffodii	Botrytis
Delphinium	Botrytis
Easter lily	Botrytis
Exacum	Botrytis
Freesia	Botrytis
Fuchsia	Botrytis
	Powdery Mildew
Geranium	Botrytis
	Rust
	Pseudomonas
	Xanthomonas
Gerbera	Botrytis
	Powdery Mildew
Gloxinia	Botrytis
Holiday Cactus	Botrytis
(ronda) oddus	Erwinia
	Pseudomonas
	Xanthomonas
Hosta	Botrytis
TIUGIB	Erwinia
Hyacinth	Botrytis
	Botrytis
Hydrangea	Powdery Mildew
Impatiens	Alternaria
unpations	Botrytis
	Powdery Mildew
	Pseudomonas
Iris	Botrytis
加川書詞用此語	Erwinia

Parties and the second					
Flowering P	lan	s			
such as but not l					
Dosages in teas	poan	a Phyton-27* per			
PLANT		TARGET DISEA	SE	RATE	
Kalanchoe		Botrytis	1.0 - 2.0		
		Erwinia			
		Powdery Mildew			
Lisianthus		Botrytis		0.75 - 1.25	
New Guinea	ESSI	Botrytis		0.75 - 1.25	
Impatiens		Powdery Mildew			
Orchid		Botrytis	0.75 - 2.5		
		Erwinia			
		Pseudomonas			
	_	Xanthomonas			
Pansy		Batrytis		0.75 - 1.25	
Part Belleville		Phytophthora			
Periwinkle		Botrytis		0.75 - 1.25	
	311	Phytophthora	THE REAL PROPERTY.		
Poinsettia	Į.	Botrytis		1.0 - 2.0	
		Erwinia	1 2 2 2 3 7		
		Powdery Mildew			
	-9.0	Scab			
	130	Xanthomonas			
Primula	1001	Botrytis		0.75 - 1.25	
		Erwinia			
Roses		Black Spot		1.0 - 3.0	
		Botrytis	HE W		
	540	Cylindrocladium	HUE COURT		
	939	Downy Mildew			
	600	Powdery Mildew	ien.		
Snapdragon		Botrytis Botrytis		0.75 - 1.5	
or repairing on		Downy Mildew			
	2011	Rust			
Sweet Pea	206	Botrytis	111111111111	0.75-1.0	
Tulip		Botrytis		0.75 - 1.25	
Zinnia		Botrylis		0.75 - 1.25	
Zillino III		Powdery Mildew			
		Pseudomonas			
		Xanthomonas			
Additional Annua	200	A STATE OF THE PARTY OF THE PAR		0.75 7.5	
The second secon	115	Botrytis		0.75 - 1.5	
and Perennials:		Powdery Mildew			
Anenome	Aste		Carnation	Coleus	
Columbine		ellower	Coreopsis	Guphea	
Dahlia	Dais		Dianthus	Daylily	
Delphinium			Hollyhock	Lantana	
Liatris			Lupine	Marigold	
	Monarda Ornamental Grasses		Pentas	Petunia	
Phlox			Primrose	Ranunculus	
Rudbeckia			Sedum	Verbena	
Veronica	Veronica Vinca		Viola		

PLANT	TARGET DISEASE	RATE	
Azalea	Cylindrocladium	125-20	
	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	1.25 - 2.0	
	Phytophthora		

Trees, Shru	bs & Vi	nes		
such as but not				
	poons Ph		per 1 gallon water	
PLANT Azales			GET DISEASE	0.75 - 2.0
Acales		Botry	racnose	0.75-2.0
		Colle	drocladium	
Charact acout				1.25 - 2.0
Cherry Laurel Conifers		Xanthomonas		0.75 - 1.5
Collingia		Botrytis Diplodia		0.75-1.5
Crape Myrtle		Bolrytis		0.75 - 1.75
Grape myrae		Powdery Mildew		0.73 - 1.75
Dogwood		Botry		0.75 - 1.75
Dogwood		Powdery Mildew		
Elm		Erwinia Erwinia		1.25 - 2.5
Hydrangea				0.75 - 1.5
riyalaligaa	1000	Botrytis Powdery Mildew		0110
Indian Hawthorn		Botry		0.75 - 1.75
W. WILLIAM TOWN TON		All the second second	nosporlum	3.10 1.19
Japanese Maple	CHIL	Botry		0.75 - 1.5
Amberius ar inight			oillium	
			domonas	
Lilac	The same	Botry		0.75 - 1.5
Maria Maria			domonas	TO THE REPORT OF
		Pawdery Mildew		
Oak		Anthracnose		0.75 - 2.0
Oak .		Botrytis		0.74
Photinia		Entomosponum		1.0 - 1.75
Pinus		Dothistroma		1.0 - 1.5
Rosaceae such	200	Apple Scab		0.75 - 2.5
Cotoneaster, M.		Botrytis Botrytis		0.79 - 2.9
Mountain Ash.	mus,	Fireblight		
Ornamental Cra	hannia	Pseudomonas		
Ornamental Pea	THE RESERVE OF THE PARTY OF THE	1 300	OUTIONS	
Pyracantha.				
Rhododendron		Botrytis		0.75 - 2.0
TUIDOOGERATORI	15,	Cylindrocladium		0.10-2.0
Rose			Flowering Potted	Cross for Bates
Sycamore			acnose	0.75 - 2.0
Sycamore		Botry		0.73-20
Additional Nurse	erv/	Gotty		
Crops such as:		Botry	tie .	0.75 - 1.5
Shrubs/Vines		south y		100
Barberry	Bouga	nvillea	Clematis	Comus
Euonymus	Forsyti		Holly	Paeonia
Philadelphus	Physod		Potentilla	Ribes
Rosa	Spirea		Vibumum	Weigela
Wisteria				
Déciduous				
Acer	Betula		Celtis	Cercis
Crataegus	Figus		Fraxinus	Ginkgo
Gleditsia	Magno	lia 🔠	Malus	Populus
Prunus	Pyrus		Tilia	
Conifers			6000	Dinte Offi
Abies			Picea	Pinus
Pittosporum	Pseud	usuga	Taxus	Thuja
Tsuga Non Realing Er	ult Tropp o	and Mines		
Non-Bearing Fr	trees the	will bear	fruit within one ye	ear)
Apple Apple	Pear	Ann Dela	Grape	Citrus
TO SECURE A			THE PARTY OF THE P	