

2017-1748
2019-04-24

<Container Label>

GROUP	M01	FUNGICIDE
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Phyton[®] 35
BACTERICIDE AND FUNGICIDE

Solution

COMMERCIAL

ACTIVE INGREDIENT: Copper, present as cupric ammonium formate and tannate complex*5.4%

*

REGISTRATION NO. 33376 PEST CONTROL PRODUCTS ACT

READ THE LABEL AND BROCHURE BEFORE USING

KEEP OUT OF REACH OF CHILDREN

CAUTION



POISON

WARNING – EYE IRRITANT
CAUTION – SKIN IRRITANT

Net Contents: 250 mL - 10 L

Registrant:
Phyton Corporation
P.O. Box 385370
Minneapolis, MN, 55438
1-800-356-8733

Canadian Agent:
Plant Products Inc
50 Hazelton St. PO Box 33
Leamington, ON N8H 3W1
1-519-326-9037

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 centre 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 centre or doctor for treatment advice.

If swallowed: Call a poison control centre 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 centre or doctor. Do not give anything by mouth to an unconscious person.

If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

TOXICOLOGICAL INFORMATION

Treat symptomatically.

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

ENVIRONMENTAL PRECAUTIONS

TOXIC to birds, small wild mammals, aquatic organisms and non-target terrestrial plants.

To reduce runoff from treated areas into aquatic habitats, avoid application to areas with a moderate to steep slope, compacted soil, or clay.

Avoid application when heavy rain is forecast.

Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip between the treated area and the edge of the water body.

STORAGE

Store in original containers at not less than 8°C. To prevent contamination store this product away from food or feed. Open dumping is prohibited.

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

<Booklet>

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

PRECAUTIONS:

KEEP OUT OF REACH OF CHILDREN

Causes eye irritation. DO NOT get in the eyes. Harmful if swallowed. May be harmful if inhaled or absorbed through the skin. May irritate the skin. Avoid contact with the skin. Avoid breathing spray mist.

Wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, application, clean-up and repair. In addition, wear protective eyewear (goggles or face shield) during mixing, loading, application, clean-up and repair.

Apply only when the potential for drift beyond the area to be treated is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment, and sprayer setting.

DO NOT apply by air.

When spraying in an enclosed area, wear a respirator with a NIOSH-approved organic-vapour-removing cartridge with a prefilter approved for pesticides, or a NIOSH-approved canister approved for pesticides.

When using do not eat, drink, or smoke. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

Remove personal protective equipment immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing. Wash the outside of gloves before removing.

Remove clothing/personal protective equipment immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Discard clothing and other absorbent material that have been drenched or heavily contaminated with product's concentrate. Do not reuse them.

For cleaning/maintaining personal protective equipment, use detergent and hot water. Keep and wash personal protective equipment separately from other laundry.

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

STORAGE

Store in original containers at not less than 8°C. To prevent contamination store this product away from food or feed. Open dumping is prohibited.

DISPOSAL

For recyclable containers: **DO NOT** reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

For returnable containers: **DO NOT** reuse this container for any purpose. For disposal, this empty container may be returned to the point of purchase (distributor/dealer).

For refillable containers: For disposal, this container may be returned to the point of purchase (distributor/dealer). It must be refilled by the distributor/dealer with the same product. Do not reuse this container for any other purpose.

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

Greenhouse Uses

DO NOT enter or allow worker entry into treated areas of a greenhouse during the restricted-entry interval of 24 hours.

At least one container or station designed specifically for flushing eyes must be available, and in operating condition with decontamination supplies, for workers entering the treated area. This container/station must remain available for at least 7 days following application.

Applicators must post warning signs bearing the following information on all entrances to the greenhouse:

- The name of the product applied
- The date and time of the application
- “Product residues in the treated area may be highly irritating to the eyes.”
- “Avoid contact of product residues with eyes.”

“If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes using the eye flush container (or eye flush station) located in the greenhouse. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.”

- The location of the eye flush container/station
- Instructions on how to operate the eye flush container/station

Signs must remain posted at least 7 days after treatment. Only the applicator(s) (or someone under their supervision) may remove warning signs. Post warning signs at entrances to treated areas notifying workers of product application.

DO NOT enter or allow worker entry into treated areas during the restricted-entry interval of 48 hours for all other uses.

NOTICE TO USER

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label.

ENVIRONMENTAL PRECAUTIONS

TOXIC to birds, small wild mammals, aquatic organisms and non-target terrestrial plants.

To reduce runoff from treated areas into aquatic habitats, avoid application to areas with a moderate to steep slope, compacted soil, or clay.

Avoid application when heavy rain is forecast.

Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip between the treated area and the edge of the water body.

RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, please note that Phyton 35 contains a Group M01 fungicide, which is generally considered to have a low risk of resistance development. However, as a general principal, it is recommended not to rely exclusively on the same product for pest control. Other resistance mechanisms that are not linked to site of action but specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

To delay fungicide resistance:

- Use tank mixtures with fungicides/bactericides from a different group when such use is permitted.
- Fungicide/bactericide use should be based on an IPM program that includes scouting, historical information related to pesticide use and crop rotation, and considers host plant resistance, impact of environmental conditions on disease development, disease thresholds, as well as cultural, biological and other chemical control practices.
- Where possible, make use of predictive disease models to effectively time fungicide/bactericide applications. Monitor treated fungal/bacterial populations for resistance development. Notify Phyton Corporation if reduced sensitivity of the pathogen to Phyton 35 is suspected.
- If disease continues to progress after treatment with this product, do not increase the use rate. Discontinue use of this product, and switch to another fungicide/bactericide with a different site of action, if available. Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for specific crops or pathogens.
- For further information and to report suspected resistance, contact Phyton Corporation at 1-800-356-8733.

DIRECTIONS FOR USE

DO NOT apply this product in a way that will contact workers or bystanders, either directly or through drift. Only protected handlers may be in the area during application.

As this product is not registered for the control of aquatic pests in aquatic systems, **DO NOT** use to control aquatic pests.

DO NOT apply using aerial application equipment.

DO NOT allow effluent or runoff from greenhouses containing this product to enter lakes, stream, ponds or other waters.

DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

1. Mix Phyton 35 by shaking it gently back and forth approximately 2 minutes.
2. Carefully pour Phyton 35 into the required amount of potable water; gently mix for 2 minutes and each 1 hour if solution is not used up.
3. Adjust pH of solution to 5.5 - 6.5.
4. Metal piping or equipment used for application should be brass or stainless steel.
5. Solution should be used within 24 hours.
6. Phytotoxicity: Phyton 35 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.

7. Do not tank mix Phyton 35 with B-Nine® WSG and do not apply Phyton 35 within 7 days either before or after applications of B-Nine WSG, as burning of leaves may result.
8. Do not tank mix Phyton 35 with strongly acidic compounds and do not apply Phyton 35 within 14 days either before or after applications of such products.

SPECIFIC DIRECTIONS:

TANK MIXING

In some cases, tank mixing a pest control product with another pest control product or a fertilizer can result in biological effects that could include, but are not limited to: reduced pest efficacy or increased host crop injury. The user should contact Phyton Corporation at 1-800-356-8733 for information before mixing any pesticide or fertilizer that is not specifically recommended on this label. The user assumes the risk of losses that result from the use of tank mixes that do not appear on this label or that are not specifically recommended by Phyton Corporation.

Follow the most restrictive label directions for each of the tank mix partners including the rates, maximum number of applications, application timing, protective equipment, restrictions and precautions.

SPRAY APPLICATIONS

Apply as a foliar spray to run off. Begin applications when conditions favour disease or disease first appears and then weekly. In the event of heavy disease pressure, intervals can be shortened to 3 to 5 days unless otherwise stated (see special remarks). Use 500-2000 L water/hectare. Rates above 125 mL per 100 litres may damage tender, open blooms. Use of low volume equipment is effective against *Botrytis* but not effective against established powdery mildew and bacterial infections. Lower dosage rates may be as effective as higher rates and should be tried first.

Routine preventive programs may be maintained at the lower rates. Higher dosage rates may be needed under significant disease pressure. To keep disease pressure low and maximize benefits with minimum dosages, use in combination with good sanitation and other management practices.

Greenhouse Ornamentals

Crop	Diseases Suppressed	Rate/ 100 L water	Special Remarks
Azalea	Cylindrocladium blight and root rot (<i>Cylindrocladium scoparium</i>)	125-275 mL	Remove any wilted plants and apply at 3 to 5 day intervals.
Begonia	Powdery mildew (<i>Erysiphe cichoracearum</i>)	125-250 mL	When powdery mildew is present, remove diseased tissue from plants and spray higher rates at 10-day intervals until sale.
Cyclamen	Botrytis blight/grey mould (<i>Botrytis</i>)	125-250 mL	Apply weekly up until flowering.

	<i>cinerea</i>)		
	Erwinia soft rot (<i>Erwinia chrysanthemi</i>)	125 mL	Begin applications when disease first appears and then every two (2) weeks.
Dianthus	Heterosporium leaf spot (<i>Heterosporium echinulatum</i>)	125-200 mL	Use the higher rate when conditions favour disease development. Apply at 7-day intervals.
Dusty Miller	Alternaria leaf spot (<i>Alternaria alternata</i>)	200 mL	Apply at 7-day intervals.
Fuchsia	Botrytis blight/grey mould (<i>Botrytis cinerea</i>)	100-150 mL	
Geranium	Grey mould (<i>Botrytis cinerea</i>)	250 mL	
	Bacterial blight (<i>Xanthomonas campestris</i>)	250 mL	This will prevent spread of disease in finished plants but will not eradicate disease in propagation material.
Gerbera	Botrytis blight/grey mould (<i>Botrytis cinerea</i>)	125-200 mL	
Hibiscus	Botrytis blight/grey mould (<i>Botrytis cinerea</i>)	100-200 mL	
Hydrangea	Powdery mildew (<i>Erysiphe</i> spp.)	125-200 mL	Product most effective when applied preventively. Use the higher rate when conditions favour disease development. Apply at 7-day intervals. May damage blue flowers.
Kalanchoe	Botrytis blight/grey mould (<i>Botrytis cinerea</i>)	125-200 mL	
Monarda	Powdery mildew (<i>Erysiphe cichoracearum</i>)	125-200 mL	Apply at 7-day intervals.
New Guinea Impatiens	Botrytis blight/grey mould (<i>Botrytis cinerea</i>)	100-125 mL	
	Powdery mildew (<i>Sphaerotheca</i> spp.)	100-150 mL	
Phlox	Powdery mildew (<i>Sphaerotheca</i> spp.)	125-250 mL	Apply at 7-day intervals.
Primula	Botrytis blight/grey mould (<i>Botrytis cinerea</i>)	100-150 mL	
Roses	Botrytis blight/grey mould (<i>Botrytis cinerea</i>)	125-250 mL	

	Powdery mildew (<i>Sphaerotheca pannosa</i>)	125-250 mL	
Miniature Roses	Cylindrocladium root and crown rot (<i>Cylindrocladium</i> spp.)	125-400 mL	For best results, apply preventively, when conditions favour disease development.
Poinsettia	Powdery mildew (<i>Erysiphe communis</i>)	125 mL	Apply anytime from cuttings through colour bracts. Powdery mildew control is best when treatment begins prior to colour.
	Botrytis blight/grey mould (<i>Botrytis cinerea</i>)	150 mL	
	Poinsettia scab (<i>Sphaceloma poinsettiae</i>)	200-250 mL	Apply anytime from cuttings through colour bracts. Scab control is best when treatment begins prior to colour. Apply at 7-day intervals.
<i>Spathiphyllum</i>	Botrytis blight/grey mould (<i>Botrytis cinerea</i>)	100-200 mL	
	Cylindrocladium root rot (<i>Cylindrocladium spathiphylli</i>)	125-200 mL	For best results, apply preventively, when conditions favour disease development.
Verbena	Powdery mildew (<i>Erysiphe cichoracearum</i>)	175 mL	Minimum application interval is 14-days.

Greenhouse Vegetables

Crop	Diseases Suppressed	Rate/ 100 L water	Special Remarks
Greenhouse tomatoes, peppers, cucumbers and eggplant	Grey mould (<i>Botrytis cinerea</i>)	100-250 mL	Use the higher rate when conditions favour disease development. Apply at 7- to 10-day intervals. Do not apply within 2 days of harvest.
Greenhouse tomatoes	Bacterial speck (<i>Pseudomonas syringae</i>)	125 - 235 mL	Apply at 7- to 10-day intervals. Do not apply within 2 days of harvest.

Outdoor Ornamentals

Crop	Diseases Suppressed	Rate/ 100 L water	Special Remarks
Outdoor Roses	Black spot (<i>Diplocarpon rosae</i>)	390 mL	Apply every 7-10 days, depending on disease incidence and pressure - use the shorter interval under conditions that favour high disease pressure; apply a

			maximum of 10 sprays per year. Apply at a minimum 7 day intervals.
Dogwood	Powdery mildew (<i>Microsphaera puchra</i>)	200 mL	Apply at a minimum of 7-day intervals. Apply a maximum of 10 sprays per year.

SOIL DRENCH APPLICATIONS, GREENHOUSE ORNAMENTALS

Crop	Disease Suppressed	Rate/ 100 L water	Special Remarks
Poinsettia	Rhizoctonia root rot (<i>Rhizoctonia solani</i>)	150-250 mL	Apply as a drench to the growing media in sufficient volume to saturate the media Repeat drench at 7-day intervals when disease pressure is present.

CUT FLOWER DIP APPLICATIONS, GREENHOUSE ORNAMENTALS

Crop	Disease Suppressed	Rate/ 1 L water	Special Remarks
Alstromeria	Botrytis blight/grey mould (<i>Botrytis cinerea</i>)	0.2 - 0.3 mL	Apply as a 4-second bud/flower dip shortly after cutting. Adjust dip mixture pH to 5.5 to 6.5.
Freesia		0.2 - 0.3 mL	
Rose		0.8 - 1.0 mL	
Sweet Pea		0.3 - 0.5 mL	

CUTTINGS DIP APPLICATION, GREENHOUSE ORNAMENTALS

Crop	Disease Suppressed	Rate/100L water	Special Remarks
Poinsettia	Erwinia soft rot (<i>Erwinia carotovora</i>)	150- 250 mL	Apply as a pre-plant dip for cuttings. Submerge cutting in solution for a few seconds.