

APR 30 1993

Will Hartfeldt  
Source Technology Biologicals, Inc.  
3355 Hiawatha Avenue - Suite 222  
Minneapolis, MN 55406

Dear Mr. Hartfeldt:

Subject: Amendment - Additional Ornamentals  
Phyton - 27  
EPA Registration No. 49538-2  
Your Submission Dated February 1, 1993

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended is acceptable provided that you:

1. Make the labeling changes listed below before you release the product for shipment bearing the amended labeling:

a. The EPA Registration No. for this product must appear on the accompanying literature.

b. Update the Environmental Hazards Statement to include the following:

For terrestrial uses, do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark.

Refer to PR Notice 93-3.

c. On all the labels for the various container sizes, change "oz." to "fl. oz." wherever it appears.

d. Only one EPA Establishment Number, where this product is produced, can appear on this product's label or container.

2. Submit one (1) copy of your final printed labeling before you release the product for shipment.

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A stamped copy of the labeling is enclosed for your records.

Sincerely yours,



for

Cynthia Giles-Parker  
Product Manger (22)  
Fungicide Herbicide Branch  
Registration Division (H7505C)

Enclosure

ACCEPTED  
with COMMENTS  
In EPA Letter Dated:

PH 22 49538-2

APR 30 1993

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

**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 wash-water.

**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. The buyer must assume all responsibility, including injury or damage, resulting from its misuse or such or in combination with other materials.

**STORAGE AND DISPOSAL**

**STORAGE**—STORE IN ORIGINAL CONTAINER AT NOT LESS THAN 45° F. DO NOT CONTAMINATE WATER, FOOD OR FEED BY STORAGE OR DISPOSAL. OPEN DUMPING IS PROHIBITED. DO NOT REUSE THESE CONTAINERS.

**PESTICIDE DISPOSAL**—PESTICIDE WASTES ARE ACUTELY HAZARDOUS. IMPROPER DISPOSAL OF EXCESS PESTICIDE, SPRAY MIXTURE, OR RESIDUE 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.

**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.

**GENERAL**—CONSULT FEDERAL, STATE OR LOCAL DISPOSAL AUTHORITIES FOR APPROVED ALTERNATIVE PROCEDURES SUCH AS LIMITED OPEN BURNING.



**BACTERICIDE & FUNGICIDE**

**ACTIVE INGREDIENT**  
Copper Sulphate Pentahydrate\* ..... 21.38%  
**INERT INGREDIENTS** ..... 78.62%  
100.00%  
\*Copper as Metallic ..... 5.5%  
Contains 2.05 lbs. Active ingredient per gallon

**KEEP OUT OF REACH OF CHILDREN  
DANGER**

**PRECAUTIONARY STATEMENTS**  
**HAZARD TO HUMANS & DOMESTIC ANIMALS**  
**DANGER**—Corrosive. Causes irreversible eye damage and skin burns. Harmful if absorbed through the skin or swallowed. Do not get in eyes, on skin, or on clothing. Wear goggles and rubber gloves. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. May cause skin sensitization in certain individuals.  
**STATEMENT OF PRACTICAL TREATMENT:**  
If in Eye: Flush with plenty of water for at least 15 minutes and seek medical attention immediately.  
If on Skin: Wash with plenty of water. Get medical attention.  
If Swallowed: Drink promptly a large quantity of milk, egg white, gelatin solution, or, if these are unavailable, large quantities of water. Avoid alcohol.  
Note to Phyton: Probable mucosal damage may contraindicate the use of gastric lavage.  
You may contact CHEMTREC at 1-800-424-9300.

**DIRECTIONS FOR USE**

It is a violation of federal law to use the product in a manner inconsistent with its labeling. Do not apply this product through any type of injection system.

Source Technology Biologicals, Inc.  
3253 Hawthorne Avenue South  
Minneapolis, MN 55425 (612) 724-7102

**RE-ENTRY STATEMENT**

Do not enter treated area without protective clothing until sprays have dried. Because certain states may require more restrictive re-entry intervals for various crops treated with the product, consult your state department of Agriculture for further information.

**PRECAUTIONARY STATEMENT**

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 reentry under your conditions of use.

**GENERAL DIRECTIONS**

1. Shake well before mixing with water. Use within 48 hours after mixing.
2. PHYTON can be applied with any type of application equipment that gives uniform coverage of all foliage, including ground, aerial, and low volume sprayers. 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.
3. Low volume applicators require conversion of ounces/volume to ounces/area.
4. PHYTON can be used up to the time of harvest.
5. Metal piping or equipment used for application should be brass or stainless steel.
6. Liquid equivalents: one fluid ounce = 29.5 milliliters = 6 teaspoons.

**SPECIFIC DIRECTIONS: ORNAMENTAL & NURSERY CROPS—**  
Greenhouse, Field, & Interior

| SPRAY                | Doses in ounces of PHYTON-27 per 10 gallons water |          |                |        |              |             |                 |
|----------------------|---|----------|----------------|--------|--------------|-------------|-----------------|
|                      | Black Spot  | Botrytis | Powdery Mildew | Erinea | Pseudo-monas | Xanthomonas | Cylindrocladium |
| Calla Lily           |   |          |                | 1-2    |              |             |                 |
| Cyclamen             |   | 1-2      |                | 1-2    |              |             |                 |
| Tropical Foliage     |   |          |                | 2-5    | 2-5          | 2-5         |                 |
| Gonorrhea            |   | 1-5      |                |        | 1-5          | 1-5         |                 |
| New Guinea Impatiens |   | 1-1.5    |                |        |              |             |                 |
| Orchid               |   | 1-1.5    |                | 1-4    | 1-4          | 1-4         |                 |
| Poinsettia           |   | 1-1.5    | 1-1.5          | 1-2    |              |             |                 |
| Rose bush            | 1-5   | 1-5      | 1-5            |        |              |             |                 |
| Rose Damask stock    |   | 1-5      |                |        |              |             |                 |
| Begonia              |   |          | 1-1.5          |        |              |             |                 |
| Philus               |   |          |                | 1-2    |              |             |                 |
| Holly                |   |          |                |        |              |             |                 |
| Cactus               |   |          |                | 1-5    | 1-5          | 1-5         |                 |
| Gerbera              |   | 1-2.5    |                |        |              |             |                 |
| Chrysanthemum        |   | 1-2.5    |                | 1-2    |              |             |                 |
| Eucalyptus           |   | 1-2.5    |                |        |              |             |                 |
| Kalanchoe            |   | 1-2.5    | 1-3.5          |        |              |             |                 |
| Miscus               |   |          |                |        | 1-2.5        | 1-2.5       |                 |
| Spathiphyllum        |   |          |                |        |              |             | 1-2.5           |
| African Violet       |   |          | 1-1.5          |        |              |             |                 |

Spray for thorough foliage coverage. Re-spray rates and intervals vary with severity of disease and adversity of environmental conditions. 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 up to 7 ounces can be used for powdery mildew on roses if no bloom are open.

**DIP APPL**

DIP CUTTINGS Dip for a few seconds in medium. Doses in ounces per 5 gallons water

|                  | Dose |
|------------------|------|
| Poinsettia       | 1    |
| KALAMIS          |      |
| Gonorrhea        | 1    |
| Tropical Foliage |      |
| Holly Cactus     |      |
| Chrysanthemum    | 1    |
| Mini-rose        |      |

**SOIL DRENCH**

|               | Dose |
|---------------|------|
| Azalea        |      |
| Rhododendron  |      |
| Cyclamen      |      |
| Gonorrhea     |      |
| Rose          | 2    |
| Spathiphyllum |      |

SEE LITERATURE FOR DIRECT ORNAMENTAL

**ENVIRONMENTAL HAZARDS**  
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**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. The buyer must assume all responsibility, including injury or damage, resulting from its misuse as such or in combination with other materials.

**STORAGE AND DISPOSAL**  
**STORAGE**—STORE IN ORIGINAL CONTAINER AT NOT LESS THAN 45° F. DO NOT CONTAMINATE WATER, FOOD OR FEED BY STORAGE OR DISPOSAL. OPEN DUMPING IS PROHIBITED. DO NOT REUSE THESE CONTAINERS.  
**PESTICIDE DISPOSAL**—PESTICIDE WASTES ARE ACUTELY HAZARDOUS. IMPROPER DISPOSAL OF EXCESS PESTICIDE, SPRAY MIXTURE, OR RINSE 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.  
**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.  
**GENERAL**—CONSULT FEDERAL, STATE OR LOCAL DISPOSAL AUTHORITIES FOR APPROVED ALTERNATIVE PROCEDURES SUCH AS LIMITED OPEN BURNING.



**BACTERICIDE & FUNGICIDE**

**ACTIVE INGREDIENT**  
 Copper Sulfate Pentahydrate\*.....21.38%  
**INERT INGREDIENTS**.....78.62%  
 100.00%  
 \*Copper as Metallic.....5.5%  
 Contains 2.06 lbs. Active ingredient per gallon

**KEEP OUT OF REACH OF CHILDREN  
 DANGER**

**PRECAUTIONARY STATEMENTS**  
**HAZARD TO HUMANS & DOMESTIC ANIMALS**  
**DANGER Corrosive** Causes irreversible eye damage and skin burns. Harmful if absorbed through the skin or swallowed. Do not get in eyes, on skin, or on clothing. Wear goggles and rubber gloves. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. May cause skin sensitization in certain individuals.  
**STATEMENT OF PRACTICAL TREATMENT:**  
 If In Eyes: Flush with plenty of water for at least 15 minutes and seek medical attention immediately.  
 If on Skin: Wash with plenty of water. Get medical attention.  
 If Swallowed: Drink promptly a large quantity of milk, egg white, gelatin solution, or, if these are unavailable, large quantities of water. Avoid alcohol.  
 Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage.  
 You may contact CHEMTREC at 1-800-424-9300

**DIRECTIONS FOR USE**  
 It is a violation of federal law to use the product in a manner inconsistent with its labeling. Do not apply this product through any type of irrigation system.

Source Technology Biologics, Inc.  
 3355 Hawthorn Avenue South  
 Minneapolis, MN 55406 (612) 724-7102

**SEE  
 ACCOMPANYING  
 LITERATURE FOR  
 INSTRUCTIONS  
 ON:  
 GENERAL  
 AND  
 SPECIFIC  
 DIRECTIONS FOR  
 USE**

**CONTENTS:**  
 U.S. 8 Fluid Ounces  
 236 Milliliters

U.S. PAT NO 4,673,687  
 E.P.A. REG NO 49538-2  
 E.P.A. EST NO 49538-MN-01  
 E.P.A. EST NO 42705-MN-01 (Producer)

**ACCEPTED  
 with COMMENTS  
 In EPA Letter Dated:  
 APR 30 1993**

Under the Federal Insecticide, Fungicide, and Rodenticide Act ... recorded, for the pesticide registered under EPA Reg. No. 49538-2

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### ENVIRONMENTAL HAZARDS

The product is toxic to fish. Do not apply directly to water or areas where surface water is present or to restricted areas below the mean high water mark. Do not concentrate water when disposing of equipment wash-water.

### NOTICE:

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### STORAGE AND DISPOSAL

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In EPA Letter Dated:

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Under the Federal Insecticide  
Fungicide, and Rodenticide Act  
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49538-2

# Phyton<sup>®</sup>

## 27

### BACTERICIDE & FUNGICIDE

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INERT INGREDIENTS.....78.64%  
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\*Copper as Metallic.....5.5%  
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### KEEP OUT OF REACH OF CHILDREN DANGER

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**HAZARD TO HUMANS & DOMESTIC ANIMALS**  
**DANGER Corrosive** Causes irreversible eye damage and skin burns. Harmful if absorbed through the skin or inhaled. Do not get in eyes, on skin, or on clothing. Wear goggles and rubber gloves. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. May cause skin sensitization in certain individuals.

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You may contact CHEMTREC at 1-800-424-9300.

### DIRECTIONS FOR USE

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Source Technology Biologics, Inc.  
3355 Hawthorne Avenue South  
Minneapolis, MN 55406 (612) 724-7100