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64137-4

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 <p>U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs Registration Division (H7505C) 401 M St., S.W. Washington, D.C. 20460</p> <p><b>NOTICE OF PESTICIDE:</b> <u>  X  </u> Registration <u>      </u> Reregistration  (under FIFRA, as amended)</p>	<p>EPA Reg. Number: <b>64137-4</b></p>	<p>Date of Issuance: <b>APR 13 1993</b></p>						
	<p>Term of Issuance: <b>Conditional</b></p>							
<p>Name and Address of Registrant (include ZIP Code):  <b>Kemira Biotech c/o E.R. Butts International, Inc. 555 Clinton Avenue P.O. Box 3337 Bridgeport, CT 06605-0337</b></p>		<p>Name of Pesticide Product:  <b>Mycostop Biofungicide for Ornamental Crops</b></p>						
<p><b>Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.</b></p>								
<p>On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.</p> <p>Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.</p> <p>This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that:</p> <ol style="list-style-type: none"> <li>You will submit the data listed below, conducted in accordance with the 40 CFR Part 158 test guidelines referred to below: <table border="1" data-bbox="421 1591 1612 1777"> <thead> <tr> <th><u>Guideline Reference Number</u></th> <th><u>Study Title</u></th> <th><u>Date Due</u></th> </tr> </thead> <tbody> <tr> <td>154-19</td> <td>Freshwater fish study (rainbow trout)</td> <td>January 15, 1994</td> </tr> </tbody> </table> </li> <li>If necessary, you will submit/cite all data required for registration/reregistration of your product under FIFRA section 3(c)(5) or 4(a) when the Agency requires all registrants of similar products to submit such data.</li> </ol>			<u>Guideline Reference Number</u>	<u>Study Title</u>	<u>Date Due</u>	154-19	Freshwater fish study (rainbow trout)	January 15, 1994
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154-19	Freshwater fish study (rainbow trout)	January 15, 1994						
<p>Signature of Approving Official: <i>Benjamin C. Chambliss for Susan T. Lewis</i></p>		<p>Date: <b>APR 13 1993</b></p>						

- 3. You will submit production information (pounds or gallons produced) for this product for the fiscal year in which the product is conditionally registered, in accordance with FIFRA section 29. The fiscal year begins October 1 and ends September 30. The production information will be submitted to the Agency no later than November 15, following the end of the preceding fiscal year. This information should be submitted to:

U.S. Environmental Protection Agency  
 Office of Pesticide Programs (H-7504C)  
 Document Processing Desk (RSB)  
 401 M St., SW., CM#2  
 Washington, DC 20460

- 4. Make the labeling changes listed below before you release the product for shipment:
  - a. Add the phrase "EPA Registration No. 64137-4".
  - b. Dosage rates must be stated in terms of U.S. measures. Equivalent rates in metric measures may be included. Make appropriate changes.
  - c. Delete "cut flower treatment" or clarify the intended use. The term "cut flower" indicates a treatment of the flowers after removal from the plants. There are no directions for such use. If you intend plants grown for production of cut flowers, make the appropriate change to clarify the use. If treatment of cut flowers is intended, add directions for use.
  - d. The label does not adequately define when to use drip irrigation and the rates of application. The drip irrigation method would appear to apply only to the soil spray or drench directions. Add separate directions for chemigation or add a statement such as "use rates and timings as described under "Drench or Soil Spray" to the section under drip irrigation".
- 5. Submit five copies of the final printed label for the record.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

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

Sincerely yours,

*Benjamin C. Chambliss*

Benjamin C. Chambliss  
Acting Product Manager (21)  
Fungicide-Herbicide Branch  
Registration Division (H-7505C)

Enclosure

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# MYCOSTOP®

## BIOFUNGICIDE FOR ORNAMENTAL CROPS

### GROWN IN GREENHOUSE OR FIELD

**ACTIVE INGREDIENTS:** Dried spores and mycellum of ray fungus (*Streptomyces* spp. Strain K61)\* .....30%  
**INERT INGREDIENTS**.....70%  
**TOTAL 100%**

\*10<sup>8</sup> cfu (colony forming units) per 1g of product

**ACCEPTED**  
**with COMMENTS**  
**in EPA Letter Dated:**

APP 13 1993

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

64-137-4

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

Avoid breathing dust or spray mist. Avoid contact with skin and eyes. Use a dust/mist filter respirator (MSHA/NIOSH approval prefix TC-21C) when handling the product.

**STATEMENT OF PRACTICAL TREATMENT**

In case of contact, immediately flush eyes or skin with plenty of water. Get medical attention if irritation persists.

**EMERGENCY INFORMATION**

For spill, leak, fire, exposure, or accident call CHEMTREC 1-800-424-9300.

**ENVIRONMENTAL HAZARDS**

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 by disposal of equipment wash waters.

Use Before ( Date ); Batch Number \_\_\_\_\_

Net Contents: \_\_\_\_\_

**Kemira Biotech**  
**Porkkalankatu 3**  
**P.O. Box 330**  
**00101 Helsinki, Finland**

**E.P.A. Registration No. 64137-\_\_\_\_**  
**E.P.A. Establishment No. \_\_\_\_\_**  
**Made in Finland**  
**KO 930312-O**

### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

MYCOSTOP is used for the control of seed rots, root and stem rots and wilt diseases of ornamental crops caused by *Fusarium*, *Alternaria*, and *Phomopsis*. MYCOSTOP has also shown suppression of *Botrytis* Gray Mold, and *Pythium* and *Phytophthora* root rots in the greenhouse ornamentals. Ornamental crops for which MYCOSTOP is recommended include:

#### FLORAL AND FOLIAGE ORNAMENTALS

African violet	Coral Bells	Geranium	Lupine	Saintpaulia
Ajuga	Crossandra	Gerbera	Marigold	Saxifraga
Alyssum	Croton	Gladiolus	Mathiola	Scindapsus
Anthurium	Cyclamen	Gynura	Monarda	Senecio
Artemesia	Daffodil	Gypsophila	Narcissus	Shasta daisy
Aster	Delphinium	Haretail grass	Nasturtium	Sinningia
Begonia	Dianthus	Hoya	Orchid	Snapdragon
Blanket flower	Dieffenbachia	Hyacinth	Peperomia	Statice
Bleeding heart	Dracena	Impatiens	Petunia	Sweet pea
Calceolaria	Dusty Miller	Pelargonium	Philodendron	Tulip
Carnation	Easter lily	Ivy	Phlox	Verbena
Chrysanthemum	Episcia	Kalanchoe	Poppy	Violet
Cineraria	Euphorbia	Larkspur	Pilea	Zinnia
Coleus	Fuchsia	Liatris	Primrose	
Columbine	Gazania	Lily	Primula	

#### WOODY ORNAMENTALS

Almond (flowering)	Chokecherry	Hydrangea	Plum	Schefflera
Azalea	Crape myrtle	Pine	Poinsettia	Spruce
Camellia	Elm	Juniper	Polyscias	Vinca
Cedar	Euonymous	Oregon grape	Protea	
Cherry	Ficus	Pachysandra	Redwood	
(ornamental)	Fir	Palm (areca)	Rhododendron	

#### SEED TREATMENT

MYCOSTOP is applied as a seed treatment at a dose rate of 5 g/kg of seed. Do not treat seeds of Dusty Miller with MYCOSTOP. To apply add MYCOSTOP to the seeds in a clean container. Close lid and shake container until seeds become evenly coated with MYCOSTOP powder.

Treated seeds should be sown without delay, but at the latest, within a week, if kept cool and dry.

#### SOIL SPRAY AND DRENCH APPLICATIONS

##### MIXING INSTRUCTIONS

To make a suspension of MYCOSTOP, mix in a small volume of water such as 1 gallon and let stand for about 30 minutes. Agitate as needed to get product to evenly disperse before diluting to final volume. Do not tank mix MYCOSTOP with any pesticides or with concentrated fertilizers.

##### TRANSPLANT DIP

MYCOSTOP can be applied by dipping roots of transplants such as carnations or chrysanthemums in a suspension shortly before planting. A suspension of 0.01-0.1% (4 tsp.-2 oz./gal.) is recommended. Use the higher rate for higher disease pressure.

**TRANSPLANTS, POTTED PLANT AND CUT FLOWER TREATMENT**

MYCOSTOP can be applied by spraying or drenching a suspension on the soil or potting medium using as a 0.01-0.1% suspension. Follow with a quarter to half inch of water on the same day.

**Soil Spray** - Prepare a 0.1% [(5 g per 5 liters)(5g per 1.3 gal)] concentrate suspension and apply 2-4 gal. in an injector or proportioner to 800 ft<sup>2</sup> of bed. Follow with irrigation to improve penetration of the organism into the root zone. Repeat every 2-6 weeks as needed for disease control. Use the higher rate and more frequent application for high disease pressure.

**Drench** - Prepare a 0.01% [(5 g per 50 liters)(5g per 13 gal)] dilute suspension and apply 20-40 gal. to 800 ft<sup>2</sup> of bed. This suspension may be fed through an injector or proportioner for better distribution. Follow with irrigation to saturate the soil or potting mix. Repeat every 2-6 weeks as needed for disease control. Use the higher rate and more frequent application for high disease pressure.

**SIDE-DRESS APPLICATION (FIELD)**

Apply 0.5-1.0 lb./treated acre (0.5 - 1.0 kg/ha) in 25-100 gals of water as a side-dress application to the plant bed. Direct spray to base of plant and root zone. Repeat treatment every 2-4 weeks or as needed.

**BOTRYTIS CONTROL ON GREENHOUSE ORNAMENTALS**

A MYCOSTOP spray of a 0.01-0.1% suspension to the foliage every 2-4 weeks will help suppress *Botrytis* infection. Direct spray to bottom leaves and wet foliage to point of run off.

**INTEGRATED DISEASE CONTROL PROGRAMS**

MYCOSTOP can be used in integrated disease control programs. However, it should not be tank mixed with any pesticide. MYCOSTOP can be used the same day with benomyl, thiophanate methyl, metalaxyl or vinclozolin. See MYCOSTOP Technical Bulletin for complete list of compatible pesticides. Pesticides not compatible with MYCOSTOP have a 4-day interval between applications.

**DRIP IRRIGATION - CHEMIGATION**

Refer to supplemental labeling entitled "Supplemental Chemigation Labeling for MYCOSTOP Drip Irrigation" for use directions for chemigation. Do not apply this product through any irrigation system unless the supplemental labeling on chemigation is followed.

**STORAGE AND DISPOSAL**

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

**STORAGE:** MYCOSTOP consists of living microbes, which is packed in moisture and air proof unit packages. Store in a cool (below 8 degrees C, 46 degrees F), dry place.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**CONTAINER DISPOSAL:** Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke.

**NOTICE TO USER**

Seller makes no warranty, express or implied, of merchantability, fitness or otherwise concerning the use of this product other than as indicated on the label. User assumes all risks of use, storage or handling not in strict accordance with accompanying directions.