

6 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.

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

Revision - KB1-AD


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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>NOTICE OF PESTICIDE: <u> X </u> Registration <u> </u> Reregistration</p> <p>(under FIFRA, as amended)</p>	<p>EPA Reg. Number: 64137-2</p>	<p>Date of Issuance: APR 13 1993</p>						
	<p>Term of Issuance: Conditional</p>							
<p>Name of Pesticide Product: Mycostop Biofungicide for Vegetable Crops</p>								
<p>Name and Address of Registrant (include ZIP Code): Kemira Biotech c/o E.R. Butts International, Inc. 555 Clinton Avenue P.O. Box 3337 Bridgeport, CT 06605-0337</p>								
<p>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.</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"> 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="452 1615 1635 1801"> <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> 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. 			<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: APR 13 1993</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. 64137-2".
 - 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 the reference to the Technical Bulletin or submit five copies of the bulletin for our review. The Technical Bulletin is considered to be part of the product labeling.
 - 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 direction 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.

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

APR 19 1993

Under the Federal Insecticide, Fungicide, and Rodenticide Act
Registration No. 64137-2

MYCOSTOP[®]

BIOFUNGICIDE FOR VEGETABLE CROPS

GROWN IN GREENHOUSE OR FIELD

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

*10⁸ cfu (colony forming units) per 1g of product

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-V

BEST AVAILABLE COPY

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 rot, root and stem rot, and wilt diseases of vegetables caused by *Fusarium*, damping-off, and root rot caused by *Alternaria brassicola* on cole crops (Crucifers), and *Phomopsis* stem and foot rot in greenhouse grown cucumbers. MYCOSTOP has also shown suppression of *Botrytis* Gray Mold and *Pythium* and *Phytophthora* root rots in the greenhouse.

SEED TREATMENT APPLICATION

MYCOSTOP can be applied as a seed treatment at a dose rate of 2-8 g/kg of seed. Do not treat melon seeds with MYCOSTOP.

MYCOSTOP can be mixed with seed in a planter box. As a planter box treatment, fill box half full of seed, add half the required amount of MYCOSTOP and mix thoroughly with a stick or paddle. Add remainder of seed and MYCOSTOP and mix thoroughly.

To mix in a small container such as a jar, add the required amount of MYCOSTOP, shake until the seeds become coated with powder, then pour into planter box.

Treated seed should be sown without delay, but at least within a week if kept cool and dry.

The following crops are recommended for seed treatment with MYCOSTOP:

<u>Using 8 g MYCOSTOP/kg seed</u>	<u>Using 5 g MYCOSTOP/kg seed</u>	<u>Using 2 g MYCOSTOP/kg seed</u>
Brassica species (cole crops)	dill	lettuce
herbs	Leguminous plants	
leeks	parsley	
onions	root crops	
	spinach	
	tomatoes	

SOIL SPRAY AND DRENCH APPLICATIONS

Vegetable crops for which soil spray and drench applications of MYCOSTOP are recommended include:

broccoli	dill	pepper, sweet
broccoli, raab	gherkin	pimento
broccoli, Chinese	kale	pumpkin
Brussel sprouts	kohlrabi	radish
cabbage	lettuce	rutabaga
cabbage, Chinese	melons	spinach
carrot	onion	squash, summer
cauliflower	parsley	squash, winter
celery	pepper, bell	tomato
collards	pepper, chili	
cucumber	pepper, cooking	

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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 in a suspension shortly before planting. A suspension of 0.01-0.1% (4 tsp.-2 oz./15 gal.) is recommended. Use the higher rate for high disease pressure.

BAND OR IN-FURROW APPLICATION

Apply 0.5-1.0 lb./treated acre (0.5-1.0 kg/ha) shortly before or at the time of planting in 25-50 gals. of water. A 7-inch band is recommended for banded applications. Lightly incorporate into the top 2-3 inches of soil. An in-furrow application of MYCOSTOP can also be made at the same rates. Spray all the soil that surrounds and covers the seed.

DRENCH OR SOIL SPRAY

MYCOSTOP can be applied by spraying or drenching a suspension on the soil or potting medium using 0.01-0.1% suspension. Follow with one-quarter to one-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 ft² 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 ft² 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

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 LETTUCE (GREENHOUSE)

A MYCOSTOP spray of 0.01-0.1% suspension to the foliage every 2-4 weeks will help suppress *Botrytis* infection. Direct spray to bottom of 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.

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