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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

FEB 7 1994

E.R. Butts International, Inc.  
555 Clinton Avenue  
P.O. Box 3337  
Bridgeport, CT 06605-0337

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

Subject: Label Amendment Submission of 8/3/93 in Response to PR Notice 93-7  
EPA Reg. No. 64137-2  
MYCOSTOP Biofungicide for Vegetable Crops

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is accepted. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

**WHAT THIS ACCEPTANCE MEANS:**

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the Worker Protection Standard (WPS) labeling requirements of 40 CFR part 156, subpart K, described in PR Notices 93-7 and 93-11. Any other labeling changes submitted in connection with this amendment application but not directly related to compliance with the WPS have not been reviewed or accepted by the Agency. If you wish to make such changes, you must submit a separate amendment application proposing them. If your product is currently suspended, the acceptance of this labeling amendment does not affect the suspension in any way.

**WHAT YOU NEED TO DO NEXT:**

Send to EPA one (1) copy of the final printed labeling:

- BEFORE selling or distributing any product bearing the final printed labeling
- AND
- WITHIN one year from date of this acceptance.

**BEST AVAILABLE COPY**



Recycled/Recyclable  
Printed with SoyCerase ink on paper that  
contains at least 50% recycled fiber

2 9 6

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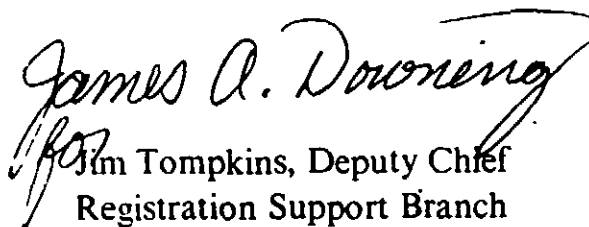
Submit the final printed labeling via the U.S. Postal Service to:

Document Processing Desk (FIN-LABEL)  
Office of Pesticide Programs (7505C)  
U.S. Environmental Protection Agency  
401 M Street, SW  
Washington, D.C. 20460-0001

Hand or courier deliveries of final printed labeling may be made to:

Document Processing Desk (FIN-LABEL)  
Office of Pesticide Programs  
Room 266A, Crystal Mall 2  
1921 Jefferson Davis Highway  
Arlington, VA 22202

Sincerely,



Jim Tompkins, Deputy Chief  
Registration Support Branch  
Registration Division (7505W)

Attachment

**BEST AVAILABLE COPY**

3 9 6

# MYCOSTOP®

BIOFUNGICIDE FOR VEGETABLE CROPS  
GROWN IN GREENHOUSE OR FIELD

ACTIVE INGREDIENTS:	Dried spores and mycelium of ray fungus ( <i>Streptomyces griseoviridis</i> Strain K61)*.....	30%
INERT INGREDIENTS.....		70%
		<b>TOTAL 100%</b>

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

**CAUTION**

**KEEP OUT OF REACH OF CHILDREN**

**STATEMENT OF PRACTICAL TREATMENT**

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

**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

Avoid breathing dust or spray mist. Avoid contact with skin and eyes.

**PERSONAL PROTECTIVE EQUIPMENT**

Applicators and other handlers must wear: Long-sleeved shirt and long pants. Waterproof gloves. Shoes plus socks. Dust/mist filter respirator (MSHA/NIOSH approval prefix TC-21C).  
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.

**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 )  
Net Contents: \_\_\_\_\_

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

E.P.A. Registration No. 64137-2  
E.P.A. Establishment No. 64137-FI-001  
Made in Finland  
KB4-V

ACCEPTED  
with COMMENTS  
in EPA Letter Dated  
FEB 7 1998

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.  
64137-2

**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.

**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 interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours. Exception: if the product is soil injected or soil incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

PPE required 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 is:

- Coveralls
- Waterproof gloves
- Shoes plus socks

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 0.03-0.13 oz./lb. (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:

USING 0.13 OZ./LB. (8 G./KG) SEED	USING 0.08 OZ./LB. (5 G./KG) SEED	USING 0.03 OZ./LB. (2 G./KG) SEED
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	celery	melons	pumpkin
broccoli, Raab	collards	onion	radish
broccoli, Chinese	cucumber	parsley	rutabaga
Brussels sprouts	dill	pepper, bell	spinach
cabbage	gherkin	pepper, chili	squash, summer
cabbage, Chinese	kak	pepper, cooking	squash, winter
carrot	kohlrabi	pepper, sweet	tomato
cauliflower	lettuce	pimento	

### MIXING INSTRUCTIONS

To make a suspension of MYCOSTOP, mix in a small volume of water such as 0.25-1.0 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 [(0.18 oz./13 gal)(5 g/50 liters)] to 0.1% [(0.18 oz./1.3 gal.)(5 g/5 liters)] is recommended. Use the higher rate for high disease pressure.

### BAND OR IN-FURROW APPLICATION

Apply 0.5-1.0 lb. MYCOSTOP/treated acre (0.5-1.0 MYCOSTOP kg/treated hectare) 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 growing 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% [(0.18 oz./1.3 gal.)(5 g per 5 liters)(5 g per 1.3 gal.)] concentrate suspension and apply 2-4 gal. in an injector, proportioner, or sprayer to 800 ft<sup>2</sup> of raised surface area (e.g. raised beds, containers, bags, pots). 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% [(0.18 oz./13 gal.)(5 g per 50 liters)(5 g per 13 gal.)] dilute suspension and apply 20-40 gal. to 800 ft<sup>2</sup> of raised surface area (e.g. raised beds, containers, bags, pots). This suspension may be fed through an injector, proportioner, or sprayer 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. MYCOSTOP/treated acre (0.5-1.0 MYCOSTOP 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 SUPPRESSION 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, if registered and if not prohibited, with benomyl, thiophanate methyl, metalaxyl, vinclozolin, fosetyl-AI, and propamocarb hydrochloride. 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°C, 46°F), dry place. Use all contents in packet the same day. Do not store opened packets since product will lose its activity.

**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.