

400-107

4-22-2003

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

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

Mr. Willard F. Cummings  
U.S. Registration Manager  
Crompton Manufacturing Company, Inc.  
74 Amity Road  
Bethany, CT 06524-3402

APR 22 2003

Subject: Vitavax Flowable Fungicide  
EPA Reg. No. 400-107  
Your letter dated February 12, 2003

Dear Mr. Cummings:

The labeling referred to above, submitted in connection with reregistration under the Federal Insecticide, Fungicide and Rodenticide Act as amended is accepted.

A stamped copy of the label is enclosed for your records. Please submit one (1) copy of the final printed label before you release the product for shipment.

The revised basic Confidential Statement of Formulation (CSF) dated January 23, 2003 submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act as amended is acceptable. Please note that this CSF supercede all previous CSFs.

If you have any questions, please call Robert Westin at (703) 305-5721.

Sincerely,

A handwritten signature in cursive script that reads "Mary L. Waller".

Mary L. Waller  
Product Manager (21)  
Fungicide Branch  
Registration Division (7505C)

Enclosure

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# Vitavax® Flowable Fungicide

Net Contents:

Active Ingredients: (% by weight)  
 Carboxin (5,6-dihydro-2-methyl-N-phenyl-1,4-oxathiin-3-carboxamide\* ..... 34%  
 Inert Ingredients: ..... 66%  
 Total: ..... 100%

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

FIRST AID	
IF INHALED:	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
EMERGENCY ASSISTANCE: Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
CROMPTON EMERGENCY PHONE	800-292-5898
SAFETY DATA AND INFORMATION	203-573-3303
TRANSPORTATION EMERGENCY (CHEMTREC)	800-424-9300

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

**APR 22 2003**

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

400-107

EPA REG. NO. 400-107  
EPA EST. NO.

006CM

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Middlebury, CT 06749  
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**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS  
CAUTION**

Harmful if inhaled. Avoid breathing vapor.

**PERSONAL PROTECTIVE EQUIPMENT**

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for Category E on an EPA chemical resistance category selection chart.

**Applicators and Other Handlers Must Wear:** A long-sleeved shirt and long pants; shoes plus socks.

Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water.

Keep and wash PPE separately from other laundry.

When handlers use closed systems in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

**USER SAFETY RECOMMENDATIONS**

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

**ENVIRONMENTAL HAZARDS**

Do not contaminate water when disposing of equipment washwaters. Drift or runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not apply directly to water, to area where surface water is present or to intertidal areas below the mean highwater mark.

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read all label directions carefully before use.

Do not apply this product through any type of irrigation system.

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 intervals. 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
- chemical-resistant gloves such as barrier laminate or nitrile rubber or neoprene, or viton
- shoes plus socks

VITAVAX Flowable Fungicide is a ready-to-use seed treatment which should be applied as a slurry treatment by machine. Use the higher rate under conditions of expected heavy disease pressure.

**BARLEY, OATS, WHEAT AND TRITICALE**

For the control of loose smut (*Ustilago nuda*), covered smut (*Ustilago hordei*) of barley, loose smut (*Ustilago avenae*), covered smut (*Ustilago kollerii*) of oats, loose smut (*Ustilago tritici*) and common bunt (*Tilletia caries*) and flag smut\* (*Urocystis agropyri*) of wheat. Use at the rate of 2-3 fluid ounces per 100 pounds of seed.

Do not graze or feed livestock on treated areas for six weeks after planting.

\*Use not registered by the California Department of Pesticide Regulation

**CORN**

VITAVAX Flowable Fungicide controls seed and seedling diseases and provides systemic control of seedborne head smut (*Sphacelotheca reiliana*). VITAVAX Flowable Fungicide is also particularly effective against *Rhizoctonia solani*. VITAVAX Flowable Fungicide should be used at a rate of 2 to 4 fluid ounces per 100 pounds of seed when applied to seed that has been treated or will be treated with protectant fungicides such as captan or thiram.

Do not graze or feed livestock on treated areas for six weeks after planting.

**COTTON**

VITAVAX Flowable Fungicide controls *Rhizoctonia solani* on cotton. When planting cottonseed early season in cold soils, use the highest recommended rate per 100 pounds of seed. Under early, cold planting conditions, use an EPA approved in-furrow granule to aid in disease control. VITAVAX Flowable Fungicide should be used at the rate of 4 fluid ounces to 8 fluid ounces per 100 pounds of cottonseed. Mix with enough water to apply mixture (slurry) at the rate of twenty (20) fluid ounces per 100 pounds of seed.

Do not graze or feed livestock on hay grown from treated seed.

**BEANS**

VITAVAX Flowable Fungicide should be used at the rate of 3-4 fluid ounces per 100 pounds of seed for the control of seedling diseases for beans.

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Do not allow livestock to graze or feed on bean forage until 60 days after treated seed is planted.

### SOYBEANS

VITAVAX Flowable Fungicide should be used at the rate of 3-4 fluid ounces per 100 pounds of seed for the control of seedling diseases in soybeans. Do not graze or feed livestock on forage and hay grown from treated seed.

### SAFFLOWER\*

Use 2 fluid ounces of VITAVAX Flowable Fungicide per 100 pounds of seed for control of seedling diseases.

\*Use not registered by the California Department of Pesticide Regulation

### ORNAMENTAL BULBS & CORMS\*

**EASTER LILIES** — For control of *Rhizoctonia* root rot, mix 1 1/2 to 3 quarts of VITAVAX Flowable Fungicide in 100 gallons of water. Dip bulbs for at least 5 to 15 minutes in solution. A sticking agent may be added. Maintain good agitation in dip tanks.

**OTHER ORNAMENTALS BULBS/CORMS** — Follow directions above for Easter Lilies when treating other ornamental bulbs and corms. A preliminary trial must be conducted prior to large scale dipping to determine individual plant tolerance.

**USE PRECAUTIONS FOR BULB DIPS** — Do not mix insecticides in the dipping solution. Wear chemical-resistant gloves (such as barrier laminate or nitrile rubber or neoprene, or viton) when dipping bulbs or handling treated bulbs/corms. Rinse gloves before taking them off, then wash your hands. Check gloves for holes. If they are damaged, get a new pair.

\*Use not registered by the California Department of Pesticide Regulation

### COMPATIBILITY

VITAVAX Flowable Fungicide can be used in combination with other flowable seed protectant fungicides and insecticides. Consult a seed treatment specialist regarding combining of products with VITAVAX Flowable Fungicide for specific seed crop applications and slurry compatibility. Tank mixes should be pre-tested to determine physical compatibility between formulations, and to assure there will be no adverse phytotoxic reactions.

### USE RESTRICTIONS

When using formulations that do not contain dye, to comply with 21CFR Chapter 1, Section 2.25 and 40 CFR 153.155, treated seed must be coated with an approved dye (40 CFR 108.1001) to distinguish and prevent subsequent and inadvertent use as food for man or feed for animals. Treated seed must not be used for or mixed with food or animal feed, or processed for oil. Treat only those seeds needed for immediate use, minimizing the interval between treatment and planting. Do not store excess treated seeds beyond planting time.

### SEED LABELING

"This seed is treated with carboxin (VITAVAX) at the manufacturer's recommended rate. Do not use treated seed for food, feed or oil purposes.

**On barley, corn, oats, wheat and triticale:** Do not graze or feed livestock on treated areas for six weeks after planting.

**On cotton:** Do not graze or feed livestock on hay grown from treated seed.

**On beans:** Do not allow livestock to graze or feed on bean forage until 60 days after treated seed is planted.

**On soybeans:** Do not graze or feed livestock on forage and hay grown from treated seed. //

Add appropriate information for any other chemical treatments.

PESTICIDE

### STORAGE AND DISPOSAL

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

**STORAGE:** Store in a cool, dry location. Do not store in direct sunlight. Protect from extreme temperatures.

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

### CONTAINER DISPOSAL:

**Plastics & Returnables:** Contact Gustafson or your chemical supplier for container return instructions, triple rinse (or equivalent). Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by state and local authorities by burning. If burned, state our of smoke.

**Metal:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

**IMPORTANT NOTICE**—Seller warrants that this product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with the directions and instructions specified on the label under normal conditions of use, but neither this warranty nor any other warranty of merchantability or fitness for a particular purpose, express or implied, extends to the use of this product, contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to seller, and buyer assumes the risk of any such use.

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