



U.S. ENVIRONMENTAL PROTECTION AGENCY  
Office of Pesticide Programs  
Biopesticides and Pollution Prevention Division  
(7501W)  
401 "M" St., S.W.  
Washington, D.C. 20460

EPA Reg. Number:

65626-9

Date of Issuance:

APR -9 1998

Term of Issuance:

Conditional

Name of Pesticide Product:

Mycotrol® ES

NOTICE OF PESTICIDE:  
X Registration  
Reregistration

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Ms. Mary McMahon  
Mycotech Corporation  
529 E. Front St.  
P.O. Box 4109  
Butte, MT 59702

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.

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.

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.

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

1. Change the label by revising the EPA Registration Number to read, "EPA Reg. No. 65626-9".
2. Submit five copies of the revised final printed label prior to release of the product for shipment.

3. A honeybee study must be conducted as a condition of registration and submitted within one year of the conditional registration date if your intention is to remove the current Environmental Hazard (EH) statement regarding pathogenicity of the product to the honeybee from the label. A protocol of your study design is required prior to submitting the data. If you do not wish to remove the current EH statement from the label, this condition does not apply.

4. Further non-target testing may be required depending on the review of the studies submitted in response to the condition of registration imposed for your other end-use products. This testing should be preceded by consultation with appropriate scientific staff of the Agency. In order to keep the monitoring fairly simple while optimally providing some relevant nontarget insect risk assessment information, it may be useful to collect specified species from a treatment area, confine them with water *ad libitum* until they die and then place them in a petri dish with a moisture source to determine if *B. bassiana* Strain GHA emerges. This would be the minimal effort needed to determine the relevance of pathogenicity in laboratory studies to pathogenicity under field conditions. This condition must be satisfied within one year of the conditional registration date.

SB:7501W:7033088097:030797:656268:128924

Signature of Approving Official:

Date:

APR 9 1998

EPA Form 8570-6

CONCURRENCES

SYMBOL	7501W	7501W						
SURNAME	BACCHUS	HUTSON						
DATE	4/6/98	4/7/98						

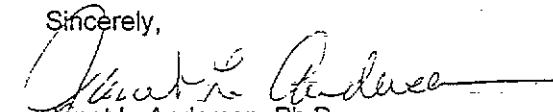
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If EPA determines, at any time, that additional data are required to maintain in effect an existing conditional registration, the Agency will require submission of such data under Section 3(c)(2)(B) of the Federal Insecticide Fungicide and Rodenticide Act (FIFRA), as amended.

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,

  
Janet L. Andersen, Ph.D.  
Director  
Biopesticides and Pollution  
Prevention Division

cc: Encl.

# CORNGARD®

## Emulsifiable Suspension Mycoinsecticide

For preventing damage from European Corn Borer, Southwestern Corn Borer  
and Lesser Cornstalk Borer in Corn and Grain Sorghum

**NOT TO BE REGISTERED IN CALIFORNIA**

Active Ingredient: *Beauveria bassiana* Strain GHA.....4.9%

Inert Ingredients.....95.1%\*

\*Contains petroleum distillates

CORNGARD contains  $9.8 \times 10^9$  viable *Beauveria bassiana* spores per gram

**KEEP OUT OF REACH OF CHILDREN**

### WARNING - AVISO

Si Usted no entiende la etiqueta, busque a alguien para que se la explique a Usted en detalle.  
(If you do not understand the label, find someone to explain it to you in detail.)

#### PRECAUTIONARY STATEMENTS

##### Hazards to Humans and Domestic Animals

Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Wear protective eyewear (goggles, face shield, or safety glasses). Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse. Harmful if swallowed, inhaled, or absorbed through the skin. Minimize breathing mists or vapors. Use with adequate ventilation. Avoid contact with skin, eyes, or clothing. In case of contact, immediately flush eyes or skin with plenty of water. Get medical attention if irritation persists.

#### STATEMENT OF PRACTICAL TREATMENT

**If Swallowed:** Do not induce vomiting; call a physician immediately.

**If Inhaled:** If irritation persists, contact physician.

**If On Skin:** Wash with soap and water.

**If In Eyes:** Flush with water.

**USER SAFETY RECOMMENDATIONS:** Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

#### NOTE TO PHYSICIAN

Product contains petroleum distillates; vomiting may cause aspiration pneumonia.

#### PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers must wear: Long-sleeved shirt and long pants. Shoes plus socks. 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. *Respirator*

#### ENVIRONMENTAL HAZARDS

This product is potentially pathogenic to honey bees. Avoid applying to areas where honey bees are actively foraging or around bee hives. This product may be toxic to fish. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment or disposal of equipment wash waters.

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

Lot Number: \_\_\_\_\_ Expiration Date: \_\_\_\_\_



**MYCOTECH**  
CORPORATION

*Mfg*  
*529 E Front St 37*  
*117 South Parkmont*  
P.O. Box 4109 - Butte, MT 59702-4109

Phone: (406)782-2386

EPA Registration Number 65626-9

EPA Establishment Number 65626-MT-02

Fax: (406)782-9912

Edition - 971121

## GENERAL INFORMATION

CornGard contains live spores of the fungus, *Beauveria bassiana*. This fungus is a naturally occurring disease organism of corn borers. Spores are alive and may be harmed by storage at high temperature or by contact with water for more than 24 hours. See storage instructions on this label.

**MODE OF ACTION** CornGard acts by contact. Spores attach to the insect, germinate and penetrate through the insect cuticle. The fungus then grows rapidly within the insect, causing mortality.

*Beauveria bassiana* occurs naturally in close association with corn plants where it infects corn borers. When CornGard is applied to corn early in the season, the fungus persists in association with corn plants providing season long reduction in corn borer damage.

## 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. 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.

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 over long-sleeved shirt and long pants
- Goggles, face shield or safety glasses
- Waterproof gloves
- Shoes plus socks

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- Goggles, face shield or safety glasses
- Waterproof gloves
- Shoes plus socks

### **NON-AGRICULTURAL USE REQUIREMENTS**

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

Keep unprotected persons out of treated areas until sprays have dried.

For reducing damage from European Corn Borer, Southwestern Corn Borer and Lesser Cornstalk Borer in Corn and Grain Sorghum. May be ground applied ~~or aerially~~ applied or applied through sprinkler chemigation as noted on this label. Not suitable for use with ultra low-volume application equipment.

### **INSECTS FOR WHICH CORNGARD MAY BE USED**

European Corn Borer

Southwestern Corn Borer

Lesser Cornstalk Borer

### **CROPS ON WHICH CORNGARD MAY BE USED**

Corn (Field, Seed, Sweet, Silage, Popcorn and Corn grown for cornmeal or flour)  
Grain Sorghum

### **PLANT SAFETY**

CORNGARD has shown excellent plant safety but has not been tested on all plant varieties or in all tank mixes. Test CornGard on a small number of plants to check for potential damage before applying to larger number of plants. Follow specific label instructions on this label for use in chemigation systems.

**TANK MIX COMPATABILITY** CornGard is physically and biologically compatible with a wide range of insecticides and spray adjuvants. It is not compatible with fungicides in tank mixtures. Fungicides will kill the spores.

**Adjuvants** CornGard is designed for application without additional wetting agents and spreaders. If adjuvants are needed for some other reason, contact your dealer or Mycotech Corporation for specific recommendations. Some wetting agents and spreaders kill the spores, the active ingredient in CornGard, or contribute to poor mixing and spray problems.

**Compatibility With Chemical Insecticides** CornGard is compatible with most chemical insecticides. However, some insecticide formulations can kill the fungal spores, the active ingredient in CornGard. If you are going to use CornGard in combination with other pesticides, contact your dealer or Mycotech Corporation for specific information. In all cases, pesticides should be used in accordance with their labels.

**Compatibility With Fungicides** CornGard is not compatible in tank mix with fungicides. Contact Mycotech or your dealer for specific recommendations on using CornGard with fungicides.

## MIXING AND APPLICATION INSTRUCTIONS

### APPLICATION TIMING AND FREQUENCY

Apply CornGard to corn when plants are 12-16 inches high (at V4-V8 stage). A single application is sufficient to establish *Beauveria bassiana* association with corn plants. A second application prior to second generation corn borer flight may further reduce damage from corn borers. Apply with sufficient water to obtain uniform and complete coverage of foliage. CornGard may be applied using ground spray equipment, ~~air~~ <sup>aerial</sup> application or by chemigation through overhead sprinkler irrigation.

### APPLICATION RATE FOR CORN

Apply CornGard at 8 fluid ounces per acre (2 ½ gallons per 40 acres).

### MIXING AND APPLICATION - GROUND AND AERIAL APPLICATION

SHAKE WELL BEFORE USING. CornGard contains emulsifiers and mixes readily in water. To mix, fill spray tank half full with water and start agitation. Shake CornGard to suspend spores, then, with agitation running, slowly add desired quantity of CornGard to spray tank. Fill remainder of tank with water. Continue sufficient agitation to maintain a uniform emulsion during loading and spraying. Triple rinse empty CornGard containers and add rinse water to spray tank. Do not mix more CornGard than needed for that day. Do not prepare CornGard ES the day before application. The spores will die if left overnight or longer in the spray tank.

### GROUND APPLICATION

Apply with sufficient water to provide thorough coverage. Direct spray over row to obtain optimal coverage in whorl and leaf axils. The amount of water will depend on spray equipment, crop size and local conditions. Generally, 10-gallon spray volume per acre is the minimum necessary to obtain adequate coverage.

### AERIAL APPLICATION

Apply with sufficient water to provide thorough coverage. Use at least 2 gallons spray volume per acre; 5-10 gallons/acre will generally improve coverage.

## CHEMIGATION

Apply CornGard by chemigation only through the following types of overhead sprinkler systems: center pivot, lateral move, end tow, side (wheel) roll, trailer, big gun solid set or hand move systems. Do not apply this product through any other type of irrigation system.

Do not apply when wind speed favors spray drift beyond the area intended for treatment..

Apply 8 fluid ounces CornGard per acre. CornGard may be applied undiluted (neat) or diluted as appropriate for injection flow rate and irrigation volume. A ratio of 1 part water to 1 part CornGard is recommended for best results. If CornGard is diluted, supply tank must be agitated to thoroughly mix CornGard in water. Add water to supply tank, start agitation, then add CornGard. Continue supply tank agitation during chemigation cycle to maintain uniform emulsion. Supply tank agitation is not necessary if CornGard is used without dilution. Shake well

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to resuspend spores before adding CornGard to supply tank. Use contents of supply tank within one day.

For best results, time CornGard chemigation at the end of irrigation water application. Excessive overhead irrigation during and after chemigation will wash active ingredient off foliage reducing effectiveness.

With center pivot or other continuous move equipment, apply CornGard in 1/4 to 1/2 inches of water per acre.

With stationary sets, wheel lines, solid sets or hand move sprinklers, apply CornGard during the last 20 to 30 minutes of the set.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from nonuniform distribution of treated water.

If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.

Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.

A person knowledgeable about the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

### **SPRINKLER CHEMIGATION**

The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

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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.

Do not apply when wind speed favors drift beyond the area intended for treatment

#### **Chemigation Systems Connected to Public Water Systems**

Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.

Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.

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.

Do not apply when wind speed favors drift beyond the area intended for treatment.

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## STORAGE AND DISPOSAL

### STORAGE

- Do not contaminate water, food, or feed by storage or disposal.
- Store in a cool, dry place. Avoid storage below freezing temperatures (32°F) or above 85°F. CORNGARD stability decreases with time at elevated temperatures above 85°F. Tightly reclose the container of unused product. Do not contaminate unused product with water.

### PESTICIDE DISPOSAL

- Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate 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

- Do not reuse as a container. 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.

## CONDITIONS OF SALE

CORNGARD conforms to the description set forth on this label and is reasonably fit for the purposes described herein when used according to the label directions and specified conditions. The manufacturer disclaims any and all other express or implied warranties of merchantability and fitness for particular purpose. Buyers and users shall assume all risk and responsibility for potential loss or damage if this product is used, stored, handled or applied in a manner inconsistent with this labeling. To the extent permitted by law, manufacturer shall not be liable for more than the purchase price for the quantity involved including incidental, consequential or special damages.