



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

November 9, 2015

Mr. Morris Gaskins
Albaugh LLC
P.O. Box 2127
Valdosta, GA 31604

Subject: Label Amendment – add mushroom casing and resistance management directions
Product Name: Cyromazine 5%
EPA Registration Number: 42750-222
Application Date: October 5, 2015
Decision Number: 510248

Dear Mr. Gaskins:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

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Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. If you have any questions, please contact Linda A. DeLuise at (703) 305-5428 or deluise.linda@epa.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "Gebken", with a long horizontal flourish extending to the right.

Richard Gebken
Product Manager 10
Invertebrate & Vertebrate Branch 2
Office of Pesticide Programs

Enclosure

EDITOR'S NOTE: 11/5/15 "clean" draft label amendment to add use on casing and resistance management instructions

CYROMAZINE 5%

Insect Growth Regulator for sciarid fly control in mushrooms

ACTIVE INGREDIENT:

Cyromazine (CAS No. 66215-27-8) 5.0%

OTHER INGREDIENTS: 95.0%

TOTAL: 100.0%

KEEP OUT OF REACH OF CHILDREN.

CAUTION

See additional precautionary statements and directions for use inside booklet.

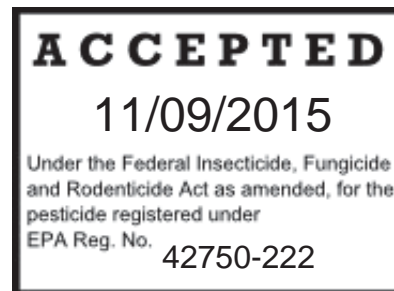
FIRST AID	
IF IN EYES	<ul style="list-style-type: none">• Hold eye open and rinse slowly and gently with water for 15-20 minutes.• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.• Call a poison control center or doctor for treatment advice.
IF ON SKIN OR CLOTHING	<ul style="list-style-type: none">• Take off contaminated clothing.• Rinse skin immediately with plenty of water for 15-20 minutes.• Call a poison control center for doctor for further treatment advice.
IF INHALED	<ul style="list-style-type: none">• Move person to fresh air.• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.• Call a poison control center or doctor for further treatment advice.
IF SWALLOWED	<ul style="list-style-type: none">• Call a poison control center or doctor immediately for treatment advice.• Have person sip a glass of water if able to swallow.• Do not induce vomiting unless told to do so by the poison control center or doctor.• Do not give anything by mouth to an unconscious person.
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
HOT LINE NUMBER: For Medical Emergency or Chemical Emergency Assistance (Spill, Leak, Fire or Accident) Call CHEM-TREC toll free at 1-800-424-9300.	

EPA Reg. No. 42750-222

EPA Est. No. xxxxxx-xx-xxx

NET CONTENTS: _____

Manufactured For:
ALBAUGH, INC.
ANKENY, IA 50021



PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Causes moderate eye irritation. Harmful if absorbed through the skin or inhaled. Avoid contact with eyes, skin, or clothing. Avoid breathing vapors or spray mist.

PERSONAL PROTECTIVE EQUIPEMENT

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- 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.

ENGINEERING CONTROL STATEMENTS

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 by cleaning of equipment or disposal of wastes. Do not apply directly to lakes, streams, or ponds.

PHYSICAL OR CHEMICAL HAZARDS

Corrosive to tin.

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.

Do not use in animal feeds.

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

CHEMIGATION

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

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store at temperatures above 32° F. Crystals may form at lower temperatures. If this occurs, place the product in a warm room (72°F or above) and shake the container at frequent intervals until all crystals have dissolved. Since this formulation contains water, it can also freeze solid at temperatures below 32°F. However, when reconstituted and crystals re-dissolve, product performance is not affected.

PESTICIDE DISPOSAL: Improper disposal of unused pesticide, spray mixture, or rinsates is a violation of Federal law. Pesticide, spray mixture, or rinsates that cannot be used according to label instructions, must be disposed of according to Federal, state, or local procedures. For guidance in proper disposal methods, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office.

CONTAINER DISPOSAL: Non-refillable container. Do not reuse or refill this container. Triple rinse (or equivalent) promptly after emptying.

Triple rinse as follows: Empty the remaining contents into application equipment or mix tank. Drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use and disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes.

FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN CROP INJURY, POOR INSECT CONTROL, AND/OR ILLEGAL RESIDUES.

PRODUCT INFORMATION

Cyromazine is an insect growth regulator (IGR). When incorporated into the mushroom compost or casing, CYROMAZINE 5% FL stops the development of sciarid fly larvae and prevents damage to the mushrooms and the mycelium growth, CYROMAZINE 5% FL has no useful contact activity to sciarid fly larvae or adults. If large numbers of adult flies are initially present in the facility, use of conventional contact insecticide is recommended around ventilators and other areas where flies congregate (refer to that product's label for further directions, precautions, and limitations). Maximum benefit from CYROMAZINE 5% FL can be expected when it is incorporated into a pest management program that includes good cultural practices to help maintain control of sciarid flies.

RESISTANCE MANAGEMENT

Some insect pests are known to develop resistance to products after repeated use. Because resistance development cannot be predicted, the use of this product should conform to sound resistance management strategies established for the crop and use area. Albaugh encourages responsible product stewardship; to ensure effective long-term control of the insects on this label.

CYROMAZINE 5% FL contains a Group 17 insecticide. Insect biotypes with acquired or inherent resistance to Group 17 insecticides may eventually dominate the insect population if Group 17 insecticides are used repeatedly as the predominant method of control for targeted species. This may result in partial or total loss of control of those species by Armor or other Group 17 insecticides.

If resistance to this product develops in your area, this product, or other products with a similar mode of action, may not provide adequate control. If poor performance cannot be attributed to improper application or other extreme conditions, a resistant strain of insect may be present. If you experience difficulty with control and resistance is a reasonable cause, immediately consult your local company representative or agricultural advisor for the best alternative method of control for your area.

In order to maintain susceptibility to these classes of chemistry:

Avoid using Group 17 insecticides exclusively for season long control of insect species with more than one generation per crop season.

For insect species with successive or overlapping generations, apply CYROMAZINE 5% FL or other Group 17 insecticides using a "treatment window" approach. A treatment window is a period of time as defined by the stage of crop development and/or the biology of the pests of concern. Within the treatment window, depending on the length of residual activity, there may either be single or consecutive application (compost, casing) unless otherwise stated in the Directions for Use of the Group 17 insecticides. Do not exceed the maximum CYROMAZINE 5% FL allowed per year.

Following a treatment window of Group 17 insecticides, rotate to a treatment window of effective products with a different mode of action before making additional applications of Group 17 insecticides.

A treatment window rotation, along with other IPM practices for the crop and use area! is considered an effective strategy for preventing or delaying a pest's ability to develop resistance to these classes of chemistry.

If resistance is suspected, do not reapply Armor or other Group 17 insecticides.

Other Insect Resistance Management (IRM) practices include:

Incorporating IPM techniques into your insect control program.

Monitoring treated insect populations for loss of efficacy.

Using tank-mixtures or premixes with insecticides from a different target site of action group as long as the involved products are all registered for the same crop outlet and effective rates are applied.

For additional information on Insect Resistance Management:

Contact your local extension specialist, certified crop advisor and/or product manufacturer for additional insect resistance management recommendations.

Visit the Insecticide Resistance Action Committee (IRAC) on the web at: <http://www.ircac-online.org/>.

APPLICATION INSTRUCTIONS

Application to Compost

Apply CYROMAZINE 5% FL when preparing the mushroom substrate using a coarse drenching spray with low pressure to minimize the formation of mists. Apply in sufficient water for uniform distribution to the compost according to the rates in the following table. These rates result in a concentration of 5 parts per million (ppm) of active ingredient. Thoroughly incorporate with a spawning machine or similar equipment.

These rates result in a concentration of 5 parts per million (ppm) of active ingredient in the compost on a wet weight basis (equal to 15 ppm on a dry weight basis).

Compost Fill Wet Weight (67% moisture) lbs./sq. ft.	Compost Fill Dry Weight lbs./sq. ft.	Rate of CYROMAZINE 5% FL fl. oz. per 1,000 sq. ft.
12	4	19
14	4.5	22
15	5	24
17	5.5	26
18	6	28
20	6.5	31
21	7	33
23	7.5	35
24	8	38
26	8.5	40
27	9	43

Example: If applying CYROMAZINE 5% FL to a wet compost bed weighing 15 lbs./sq. ft., use 24 fl. oz of CYROMAZINE 5% FL per 1,000 sq. ft. Rates can also be figured using dry weight of the compost.

Application to Casing

Armor can be applied as a single low-volume drench spray to the casing material, Apply at 14 or more days after the compost application at a rate of 5 ppm (3.0 fl oz/ton) to the casing material.

Do not make more than two applications of Armor during a mushroom production cycle (one to the compost followed by one to the casing).

Do not apply to the casing within 14 days of harvest.

CONDITIONS OF SALES AND LIMITATIONS OF WARRANTY AND LIABILITY

The Directions for Use of this product should be followed carefully. It is important to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of ALBAUGH, INC., or Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold ALBAUGH, INC. and Seller harmless for any claims relating to such factors.

ALBAUGH, INC. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of the product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of the Seller or ALBAUGH, INC., and Buyer and User assume the risk of any such use. ALBAUGH, INC. MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

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