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U.S. ENVIRONMENTAL PROTECTION AGENCY  
Office of Pesticide Programs  
Registration Division (7505C)  
401 "M" St., S.W.  
Washington, D.C. 20460

EPA Reg. Number:

70614-1

Date of Issuance:

SEP 28 1998

NOTICE OF PESTICIDE:

  x   Registration

       Reregistration

(under FIFRA, as amended)

Term of Issuance:

Name of Pesticide Product:

GHG™ CARBON DIOXIDE

Name and Address of Registrant (include ZIP Code):

Mr. Peter Gerlach, President  
G.H.G. Company, Inc.  
3685-B Unit 10 Investment Lane  
Riviera Beach, FL 33406

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 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.

Based upon your application of February 19, 1997, and your follow-up submissions of May 14, 1998, June 3, 1998 and September 23, 1998, EPA has registered the product identified above under the authority of §3(c)(5) of the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended. Note that this letter requires you to make certain changes the labeling of this product.

Registration under FIFRA does not eliminate the need for continual reassessment of pesticides. EPA may require submission of data at any time to maintain the registration of your product.

Signature of Approving Official:

Date:

SEP 28 1998

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The Confidential Statement of Formula (CSF) dated May 14, 1998, is basically acceptable. We understand that this product consists entirely of another registered product which is to be relabeled as your product.

The efficacy data submitted (MRID No. 446071-01) indicate that control of fire ants was achieved at 9 of 10 treated mounds at each of two test sites and at all 10 treated mounds at each of the two other test sites. The overall test results indicate that the treatments eliminated fire ant activity at 95% of treated mounds and support the claim that this product controls fire ants. The data would not support any claims to the effect that the product is effective 100% of the time. No additional efficacy data are required at this time for this product.

The label submitted by courier on September 23, 1998, is basically acceptable. Before selling, distributing, or using this product, make the label changes.

1. The registration number 70614-1 must appear on the final printed version of this label.
2. In the third sentence of the "Use Restrictions:" subsection of the "DIRECTIONS FOR USE", change "non target" to "nontarget".
3. Insert the text indicated below as the second paragraph of "Storage and handling instructions:".

Transport cylinders using hand truck or foot truck to which cylinder can be firmly secured. Do not remove protective bonnet and safety cap until immediately before use. Replace safety cap and valve protective bonnet when cylinder is not in use. When cylinder is empty, close valve, screw safety cap onto valve outlet and replace protective bonnet before returning to shipper. Do not use cylinders for any other purpose. Follow registrant's instructions for return of empty or partially empty cylinders.

- 4. Delete the second sentence from the double-asterisked "\*\*\*" paragraph which appears at the bottom of the right side column. This label does not provide adequate directions for treating fire ant mounds which are larger than "average size". We suspect that a dome larger than 12" in radius might be needed in addition to more CO<sub>2</sub>. You might want to propose to modify the existing directions either to accommodate different specified sizes of domes and/or different specified durations of CO<sub>2</sub> application and exposure or to provide separate sets of 5-step "Directions" for different sizes of domes. Such changes in use directions would have to be proposed as a registration amendment.

The last two sentences of the "General ANT DOME System Setup:" subsection of the "DIRECTIONS FOR USE" do not seem to add much to the overall use directions. The thoughts expressed by these sentences seem to be covered by the first two steps of "Directions for using the 12" radius hemisphere". As the two sentences appear on the accepted label, they must remain on your label for now. In the future, you might wish to propose to delete them and possibly modify "STEP 1" and "STEP 2" of "Directions for using the 12" radius hemisphere" accordingly.

As required by §6(a)(2) of FIFRA, you must submit to EPA any "factual information regarding unreasonable adverse effects" of this product on the environment, including but not limited to adverse effects humans and other nontarget organisms.

Submit two copies of the final printed labeling for our records. Make sure that type sizes conform with the requirements indicated in the "A-79 ENCLOSURE" and the "Label Type Point Chart" (enclosed).

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA. Your release for shipment of the product constitutes acceptance of these conditions.

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A stamped copy of the label is enclosed for your records.

Sincerely yours,



William W. Jacobs, Ph. D.  
Insecticide-Rodenticide Branch  
Registration Division (7505C)

enclosures

**GHGTM**  
**CARBON DIOXIDE**  
 FOR USE TO CONTROL FIRE ANTS  
 ACTIVE INGREDIENTS: CARBON DIOXIDE.....99.0%  
 INERT INGREDIENTS:.....1.0%  
 TOTAL.....100%

SEP 28 1988  
 72514-1  
 Pesticide Insecticide  
 Federal Insecticide Act  
 EPA Reg. No. 00000-0

**KEEP OUT OF REACH OF CHILDREN**

**DANGER**  
**EXPOSURE MAY CAUSE SUFFOCATION AND DEATH**

USE WITH ADEQUATE VENTILATION. CLOSE VALVE WHEN NOT IN USE AND WHEN EMPTY. CARBON DIOXIDE, BEING HEAVIER THAN AIR, TENDS TO ACCUMULATE NEAR THE FLOOR OF AN ENCLOSED SPACE DISPLACING THE AIR UPWARD AND CREATES AN OXYGEN DEFICIENT ATMOSPHERE.

**STATEMENT OF PRACTICAL TREATMENT**

**If inhaled:** Get exposed person to fresh air immediately. Keep victim lying down and warm. Make sure the person can breathe freely. If breathing has stopped, give artificial mouth to mouth resuscitation and supplemental oxygen. Do not give food or any objects by mouth to any unconscious person. Seek medical attention immediately.

**If on skin:** If exposure to carbon dioxide as liquid causes frostbite, flush affected area with lukewarm water. Do not use hot water. A physician should see patient promptly if cryogenic "burn" has resulted in blistering of the skin surfaces or in deep tissue freezing.

**NOTE TO PHYSICIAN:** Symptoms of overexposure are headache, dizziness, drowsiness, shortness of breath, muscular weakness and ringing in ears. High concentration can produce a faint acid taste and can cause paralysis of the breathing control centers of the nervous system.

NET WT. 15 LBS. EPA REG. NO. 00000-0

**LOCATION** NEW BRUNSWICK, GA. **ESTABLISHMENT #** 038719-GA-004

Manufactured For G.H.G. COMPANY, INC.  
 3685B Investment Ln. #10 Riviera Beach, Florida 33404

**Precautionary Statements**  
**Hazardous to Humans & Domestic Animals**  
**DANGER**

Hazardous liquid and vapor under pressure. Exposure may result in suffocation or death. Carbon Dioxide is 1.5 times heavier than air. Do not breathe vapors. Liquid can cause frostbite. Do not get liquid on skin or in eyes. Exposure to high levels may occur without warning or detection by user.

All persons working with this product should be knowledgeable of the hazards of this chemical, trained in the use of required respirator equipment and detector devices, emergency procedures and use of the product.

**DIRECTIONS FOR USE**

IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELING.

This product may only be used by people who have been thoroughly trained in the handling of pressurized cylinders and in the techniques used to apply this type of product.

**Use Restrictions:** This product may be used to control fire ants present in their natural environments. Carbon Dioxide acts by

displacing oxygen and suffocating target insects. Care must be taken not to place the ANT DOME hood so that non target insects or other animals are covered during treatment. Likewise, the ANT DOME system should be used only in well ventilated areas to eliminate suffocation risks to applicators.

**General ANT DOME System Setup:** Connect the hose probe assembly to the carbon dioxide regulator using an adjustable wrench. Next, connect the carbon dioxide regulator to the carbon dioxide tank. An adjustable wrench should be used for this step also, but care must be taken not to over tighten this fitting. After seating the ANT DOME plastic hood into the ground, insert the gas probe through the hood and into the heart of the ant hill. Proceed with the *Directions for using the 12" radius hemisphere*, found in the following paragraph of this label.

**Treatment of Fire Ant Mounds**

**Directions for using the 12" radius hemisphere.**

**STEP 1** Place the ANT DOME over a fire ant mound and bury the edges in the soil by turning the dome rapidly back and forth while pushing downward. **STEP 2** Place the gas probe through the hole in the top of the ANT DOME and down into the center of the ant hill. The best results are achieved when the gas probe is forced through the top soil and into the heart of the ants' network of tunnels. **STEP 3** Operate the valve on the top of the carbon dioxide tank. Then slowly turn the handle on the regulator in the counter clockwise direction until the output gas gage reads approximately twenty psi. Run the gas into the ant hill at this rate for approximately four to six minutes depending on the size of the ant hill. *It is not recommended to exceed twenty psi during this stage of the treatment since an increase in gas flow could cause the regulator to temporarily freeze up and stop working.* When four to six minutes have elapsed, turn the gas off by turning the gas off by turning the handle on the regulator in a counter clockwise direction until the gas stops flowing. Then shut off the gas valve on the top of the carbon dioxide tank. **STEP 4** The gas probe may be removed immediately after the carbon dioxide gas has been shut off, however, the ANT DOME should be left in place for an additional five to seven minutes in order to effectively exterminate the mound. **STEP 5** Remove the ANT DOME from the hill and *stomp the hill thoroughly* in order to collapse the ants' network of tunnels and seal the carbon dioxide gas in the ground.

**Instructions for maximizing treatment effectiveness:**

The ANT DOME System is most effective when fire ants are active in the mound. Use after heavy rain is not recommended since very wet ground conditions may hamper the effectiveness of the carbon dioxide gas as an asphyxiant. The ANT DOME System is effective in all soil types where fire ants are able to create mounds.

**Re-treatment:** If visible signs of living fire ants are apparent seventy two hours after treatment, the procedures above may be repeated as necessary.

**Storage and handling instructions:**

Store in a cool, well ventilated area under lock and key. Post as a pesticide storage area. Do not contaminate water, food or feed by storage. Store cylinders upright, secure to rack or wall to prevent tipping. Cylinders should not be subject to temperature extremes, rough handling or mechanical shock such as dropping, bumping, dragging or sliding. Do not use rope slings, hooks tongs or similar devices to unload cylinders.

\*\* These instructions apply to an average size fire ant hill. Significantly larger pest environments will require a proportionally larger volume of carbon dioxide in order to achieve satisfactory results.