



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

EPA Reg. Number:
 279-3132

Date of Issuance:
 OCT 14 1993

NOTICE OF PESTICIDE:
 Registration
 Reregistration

Term of Issuance: Until
 Reregistration

Name of Pesticide Product:
 ChlorGuard LO
 Insecticide

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

FMC Corporation
 1735 Market Street
 Philadelphia, Pennsylvania 19103

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. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.
2. Change the label by revising the EPA Registration Number to read, "EPA Reg. No. 279-3132."

This acceptance of your label does not relieve you of any obligation to comply with the Worker Protection Standard (WPS). Under the WPS labeling regulations at 40 CFR part 156, subpart K, § 156.200(c)(3), you are prohibited from distributing or selling any product within the scope of the WPS requirements after April 21, 1994, without amended labeling accepted by the Agency.

Signature of Approving Official:

DENNIS H. EDWARDS

Dennis H. Edwards, Jr.
 Product Manager (19)
 Insecticide-Rodenticide Branch
 Registration Division (7505C)

Date:

OCT 14 1993

3. Submit two copies of the revised final printed label for the record.

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 yours,

DENNIS H. EDWARDS

Dennis H. Edwards, Jr.
Product Manager (19)
Insecticide-Rodenticide Branch
Registration Division (7505C)

Enclosure

Initial Draft 6/9/92
Revised 7/14/93 with EPA comments 6/30/93.
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013021 Additions/changes in BOLD

Code 1358

Net Contents:

To Be Applied By or Under the Direct Supervision of Pest Control Operators
Responsible for Insect Control Programs.

ChlorGuard™ LO
Insecticide

EPA Reg. No. 279-GRGE

EPA Est. NO.

Active Ingredient:

Chlorpyrifos: [0,0-diethyl 0-(3,5,6-trichloro-2-pyridyl)-
phosphorothioate].....38.9%
Inert Ingredients:*.....62.1%
Total 100.0%

Contains 3.2 pounds active ingredient per gallon.
* Contains petroleum distillates

KEEP OUT OF REACH OF CHILDREN

WARNING

AVISO

Precaucion al usuario: Si usted no lee ingles, no use este producto hasta
que la etiqueta le haya sido explicada ampliamente.

STATEMENT OF PRACTICAL TREATMENT

If swallowed: Call a physician or Poison Control Center immediately. Do
not induce vomiting. Rinse mouth with water. Dilute by giving 1 or 2
glasses of water. Do not give anything by mouth to an unconscious person.

If on skin: Wash with plenty of soap and water. Get medical attention if
irritation persists.

If in eyes: Flush eyes with plenty of water. Call physician if irritation
persists.

If inhaled: Remove victim to fresh air. Get medical attention.

See other Panels for additional Precautionary Statements.

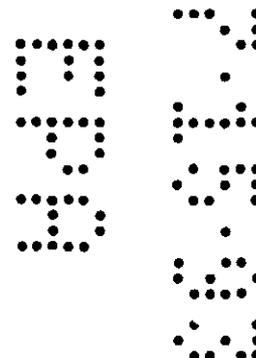
FMC Corporation
1735 Market Street
Philadelphia, PA 19103

ACCEPTED
with COMMENTS
in EPA Letter Dated

OCT 14 1993

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

279-3132



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Note To Physician

Chlorpyrifos is a reversible cholinesterase inhibitor. Atropine sulfate is antidotal. Start treatment by giving 2 mg atropine by injection after cyanosis is overcome and repeat atropine at 0.4 to 2 mg every 15 minutes until atropinization is achieved (tachycardia, flushing, dry mouth and mydriasis). Oximes such as 2-PAM/protopam are also antidotal, but only in conjunction with atropine. Observe to insure symptoms do not recur as atropinization wears off. Morphine, theophylline, phenothiazines and reserpine are probably contraindicated. This product also contains lightweight aromatic hydrocarbons that can produce a severe pneumonitis if aspirated during emesis. Consideration should be given to gastric lavage with endotracheal tube in place. Treatment is controlled removal of exposure followed by antidotal, symptomatic and supportive care.

For Emergency Assistance Call (800) 331-3148

PRECAUTIONARY STATEMENTS

Hazards to Humans (and Domestic Animals)

Warning

May be fatal if swallowed. Causes moderate eye irritation. Harmful if inhaled or absorbed through the skin. Avoid contact with contact with eyes, skin or clothing. Avoid breathing vapor or spray mist. Wash thoroughly with soap and after handling and before eating or using tobacco. Remove contaminated clothing and wash before reuse.

Environmental Hazards

This pesticide is toxic to birds, fish and aquatic invertebrates. Birds feeding in treated areas maybe killed. Clean up spilled product to reduce exposure to wildlife. For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Run-off may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwaters.

Physical/Chemical Hazards

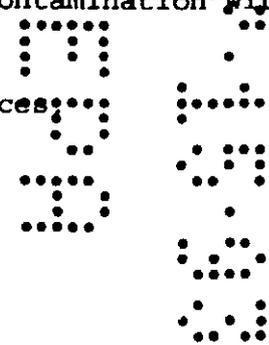
COMBUSTIBLE - Do not store or use near heat or open flame.

STORAGE AND DISPOSAL

Storage

Avoid storage above 122°F (50°C) for extended periods of time. Storage below 40°F (5°C) may result in formation of crystals. If product crystallizes, warm to 55 - 75°F (13 - 24°C) by room heating only and shake occasionally to redissolve crystals. Do not use external sources of heat for warming container. Protect from moisture. Avoid contamination with water, acids, or alkalies. Keep container closed.

Do not use or store near heat, open flame or hot surfaces.



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Keep out of reach of children and animals. Store in original containers only in a locked storage area. Store in a cool, dry place and avoid excess heat. Carefully open containers. After partial use, replace lids and close tightly. Do not put concentrate or dilute material into food or drink containers. Do not contaminate other pesticides, fertilizers, water, food, or feed by storage or disposal.

In case of spill, avoid contact, isolate area and keep out animals and unprotected persons. Keep materials out of water courses. Confine spills. Call FMC: 1-800-331-3148.

To confine spill: If liquid, dike surrounding area or absorb with sand, cat litter, commercial clay or gel absorbents. If dry material, cover to prevent dispersal. Place damaged package in a holding container. Identify contents.

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 of the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL:

Metal containers: 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.

Plastic Containers: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Glass Containers: Triple rinse (or equivalent). Then dispose of in a sanitary landfill or by other approved state and local procedures.

Returnable/Refillable Sealed Container: Do not rinse container. Do not empty remaining formulated product. Do not break seals. Return intact to point of purchase or location authorized by distributor.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

GENERAL INFORMATION ON THE USE OF THIS PRODUCT

Safe Handling Procedures: Wear protective clothing when using or handling this product to help avoid exposure to eyes and skin. ~~As a minimum,~~ chemical workers' goggles, neoprene or natural rubber gloves and footwear, a long-sleeved shirt and long-legged pants or coveralls ~~are~~ recommended. To avoid breathing spray mist during application in confined areas, wear a mask or respirator of a type recommended by NIOSH for filtering spray mists and organic vapors.

Attention: Do not allow adults, children or pets on treated areas until spray has dried. Keep out of fish pools and other bodies of water. Do not use in poultry houses. Do not tank mix this product with products containing dichlorvos (DDVP). Do not formulate this product into other end-use products.

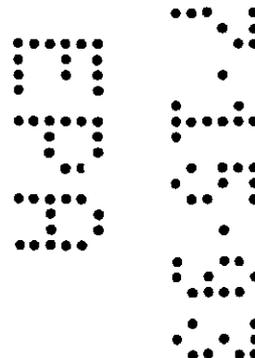
PEST CONTROL INDOORS

Use ChlorGuard™ LO insecticide to control pests listed in the following table by applying at the recommended dosages. Use a 0.25% spray to control light infestations, and a 0.5% spray to quickly reduce heavy infestations or as directed. To prepare the spray, dilute ChlorGuard™ LO insecticide with water or with a suitable base oil. Use only deodorized kerosene for oil-based sprays.

Applications may be made within residential buildings, including homes and apartment buildings. Applications may also be made within mausoleums and non-food areas of industrial, institutional, and commercial buildings, including hospitals, stores, manufacturing plants, and warehouses. Applications may be made within food handling establishments, including restaurants, grocery stores, bakeries, bottling plants, canneries, and grain mills.

In food handling establishments use only as a spot and/or a crack and crevice treatment. As a crack and crevice treatment apply small amounts of material directly into openings leading to voids and hollow spaces in walls, equipment legs and bases, or which occur at points between different elements of construction, or between equipment and floor. Equipment capable of delivering a pin stream of spray should be used. Repeat treatment as needed, but not more often than once every 7 days in restaurants and similar food service establishments. In case of emergency (call back), ChlorGuard™ LO may be applied after 2 days from last treatment, but emergency use should be limited to once per month. Applications of this product in food handling establishments other than as spot and/or crack and crevice treatments are not permitted.

Apply as a coarse, low pressure spray (20 psi or less) or with a paint brush to localized areas and non-food areas. Treat where insects are found or normally occur, including dark corners of rooms and closets; floor drains; cracks and crevices in walls; along and behind baseboards; beneath and behind sinks, stoves, refrigerators, refrigerator units, and cabinets; and around plumbing and other utility installations.



NOTE: Where quick "knockdown" and/or "flushing action" is desired pyrethrins or a pyrethroid such as Flee, Cynoff EC may be added to the spray mixture containing ChlorGuard™ LO insecticide. For best results, use pyrethrins at 0.25% in water-based sprays and 0.05% in oil-based sprays. Consult labeling for pyrethrin products used to determine the amount needed to give the desired spray concentration. Also read and observe all use and handling precautions for these products. Mixtures of ChlorGuard™ LO insecticide and pyrethrins should not be sprayed on carpets. Do not apply water-based sprays of this product in conduits, motor housing, junction and switch boxes, or other electrical equipment because of possible shock hazard. If there is need to treat such areas, use only oil-based sprays. Prior to application, de-energize electrical equipment. After application allow time for oil to evaporate before starting motors or placing switches in the "on" position.

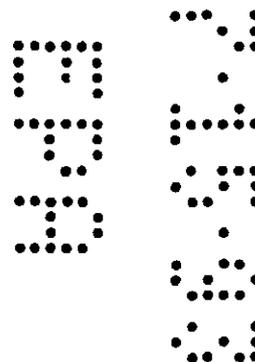
Do not allow spray to contact food, feedstuffs, or water supplies. Thoroughly wash dishes and food handling utensils with soap and water if they become contaminated by application of this product. Do not allow children or pets to contact treated surfaces until spray has dried. Remove pets and cover fish bowls (tanks) before spraying. Turn off air circulation system while treating. Do not introduce the spray into the air or allow the spray to contact food or food-contacting surfaces.

Pests Controlled, Mixing Directions and Special Notes

Mixing Directions

Water-based Spray: For 0.25% Spray - Mix 0.8 fluid ounce or 25 ml of ChlorGuard™ LO per gallon. For 0.5% Spray - Mix 1.6 fluid ounce or 50 ml of ChlorGuard™ LO per gallon. For 1% Spray - Mix 3.2 fluid ounces or 100 ml of ChlorGuard™ LO per gallon.

Oil-based Spray: For 0.25% Spray - Mix 0.6 fluid ounce or 18 ml ChlorGuard™ LO per gallon. For 0.5% Spray - Mix 1.2 fluid ounce or 36 ml of ChlorGuard™ LO per gallon.



ChlorGuard™ LO 0.25% or the 0.5% spray can be used for all pests listed below:

Ants¹
Cockroaches
Confused Flour Beetle or Flour Beetles
Crickets
Earwigs
Fleas
Firebrats
Indians Meal Moth
Mediterranean Flour Moth
Millipedes
Red Flour Beetles
Rice Weevils
Saw-toothed Grain Beetles
Silverfish
Spiders
Ticks

Use only ChlorGuard™ LO 0.5% Spray for the following:

Brown Dog Ticks²
Carpet Beetles³
Clover Mites

NOTES:

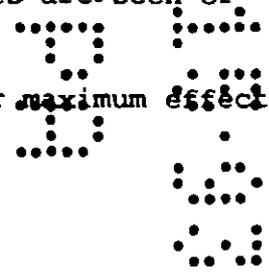
General - Use the 0.25% rate to control light infestations and the 0.5% to quickly reduce heavy infestations or for extended residual control.

¹For ants apply to ant trails and around doors and windows and wherever else the pest may find entrance.

²For the control of Brown Dog Ticks, thoroughly apply the spray as a spot treatment to infested areas, such as pet beds and resting quarters; nearby cracks and crevices; along baseboards, windows and door frames, and localized areas of floor and floor coverings where these pests may be present. Old bedding should be removed and replaced with clean, fresh bedding after treatment. Do not treat pets with this product. Additionally, treat pets with a product registered for animal application to control the source of flea infestation.

³For control of Carpet Beetles, thoroughly apply the spray as a spot treatment along baseboards and edges of carpeting, rugs, and furniture, in closets and on shelving, and wherever else these insects are seen or suspected.

Note: A period of 4 to 7 days is normally required for maximum effect on cockroaches.

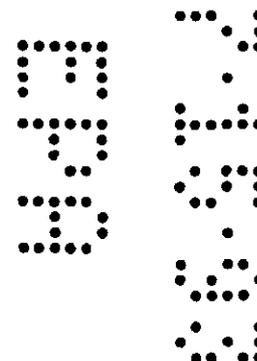


WOOD-INFESTING BEETLES: Wear suitable protective equipment and clothing when using or handling this product to help avoid exposure to eyes and skin. As a minimum, chemical worker's goggles, neoprene or natural rubber gloves and footwear, a long-sleeved shirt and long-legged pants or coveralls are recommended. To avoid breathing spray mist during application in confined areas, wear a mask or respirator of a type recommended by NIOSH for filtering the spray mist and organic vapors.

For control of wood-infesting beetles of the family Lyctidae, Anobiidae, Bostrichidae, Cerambycidae in homes and other structures, apply as a emulsion containing 1% ChlorGuard™ LO. For treatment of small areas, apply by brushing the emulsion evenly on wood surfaces. For larger or overhead areas apply as a coarse spray to the point of run off. Sprayed surfaces should be avoided until the spray has totally dried. Do not apply in food serving areas. Do not use in structures occupied by animals to be used for food purposes or which produce products for human consumption. Do not use in food areas of food handling establishments, restaurants, or other areas where food is commercially prepared or processed.

AREA CONTROL OF FLEAS & TICKS: Use ChlorGuard™ LO to control fleas & ticks infesting lawns areas such as grass areas adjacent or around private homes, duplexes, townhouses, condominiums, house trailers, apartment complexes, carports, garages, fence lines, storage sheds, barns, office buildings and other residential and commercial structures where these pests are present and create a nuisance or possible public health problem. Apply ChlorGuard™ LO in water at the rate of approximately 0.2 fl. oz. (6 ml) per 1000 ft² using a hydraulic sprayer, mist applicator, knapsack sprayer or other suitable hand or power spray equipment. Treat low underbrush, grassy areas, weeds and ground surface and debris using enough spray volume to obtain thorough coverage, usually 1 to 2.5 g lons per 1000 sq. ft².

WARNING (Area Control of Ticks & Fleas): Do not allow public use of treated areas during application or until spray has dried. Do not apply when weather conditions favor drift from treated areas. Do not apply where run-off into lakes, streams, ponds or other bodies of water is likely to occur. Fish and crustaceans may be killed if their waters are contaminated with this product.



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FIRE ANTS: Mix at a rate of 2/3 fl. oz. per 2 gallons of water and apply 1 gallon of emulsion per mound. Thoroughly wet the mound and surrounding area to a 4 ft. diameter. For best result, apply in cool weather (65-80°F), or in early morning or late evening hours. Treat new mounds as they appear. Application should be a gentle rain from a sprinkler can or using low pressure spray since pressurized sprays may disturb the ants causing migration. Do not disturb mounds before treating.

Distributors Should Sell in Original Packages Only.

Terms of Sale or Use: On purchase of this product buyer and user agree to the following conditions:

Warranty: FMC makes no warranty, expressed or implied, concerning the use of this product other than indicated on the label. Except as so warranted, the product is sold as is. Buyer and user assume all risk of use and/or handling and/or storage of this material when such use and/or handling and/or storage is contrary to label instructions.

Directions and Recommendations: Follow directions carefully. Timing, method of application, weather conditions, mixture with other chemicals not specifically recommended and other influencing factors in the use of this product are beyond the control of the seller and are assumed by the buyer at his own risk.

Use of Product: FMC's recommendations for the use of this product are based upon tests believed to be reliable. The use of this product being beyond the control of the manufacturer, no guarantee, expressed or implied, is made as to the effects of such or the results to be obtained if not used in accordance with directions or established safe practice.

Damages: Buyer's or user's exclusive remedy for damages for breach of warranty or negligence shall be limited to direct damages not exceeding the purchase price paid and shall not include incidental or consequential damages.

FMC & ChlorGuard™ - FMC trademark

