

Y1119 66222-17

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U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (H7505C)
401 "M" St., S.W.
Washington, D.C. 20460

EPA Reg. Number:

66222-17

Date of Issuance:

DEC 21 1993

NOTICE OF PESTICIDE:
 Registration
 Reregistration

Term of Issuance: Until
Reregistration

Name of Pesticide Product:

Pyrinex™ Chlorpyrifos
Termiticide
Concentrate

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Makhteshim - Agan of North America Inc.
551 Fifth Avenue, Suite 1100
New York, New York 10176

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. Make the following label changes:

- a. Revise the EPA Registration Number to read, "EPA Reg. No. 66222-17".
- b. The front panel storage instructions are different from those appearing on page 2. Delete the front panel instructions and revise those on page 2 if necessary.
- c. Revise the Environmental Hazards statement "Do not apply directly to water" as directed by PR Notice 93-3.

Signature of Approving Official:

DENNIS H. EDWARDS

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

Date:

DEC 21 1993

d. Under no. 2 of "Retreatment Restrictions," delete the statement: "Routine retreatment of the entire premises should be avoided." Replace it with: "Annual retreatments are prohibited unless reinfestation or barrier disruption has occurred."

3. Submit five 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,

DENNIS H. EDWARDS

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

Enclosure

ACCEPTED
with COMMENTS
in EPA Letter Dated

DEC 21 1993

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

66222-11

PYRINEX™

CHLORPYRIFOS TERMITICIDE CONCENTRATE

To Be Applied Only By Or Under The Supervision of Commercial Applicators Responsible For Insect Control Programs. Not Intended For Use By Homeowners.

SHAKE WELL BEFORE USING - STORE ABOVE 55° F. NOTE: Crystals may form in this product if stored below 55° F. If crystals are present, warm to 70° F and shake occasionally until crystals disappear.

ACTIVE INGREDIENT:

Chlorpyrifos (0,0-diethyl 0-(3,5,6-trichloro-2-pyridyl) phosphorothioate)	44.9%
INERT INGREDIENTS:	55.1%
TOTAL	100.0%

KEEP OUT OF REACH OF CHILDREN

WARNING AVISO

PRECAUCION AL USUARIO: Si usted no lee ingles, no use este producto hasta que le etiqueta haya sido explicada ampliamente.

STATEMENT OF PRACTICAL TREATMENT

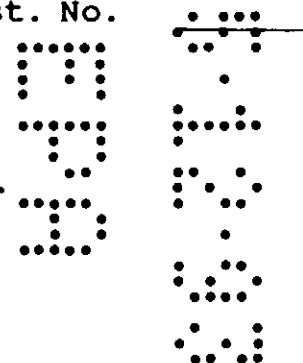
- IF SWALLOWED: Call a physician immediately. Do not induce vomiting. Contains an aromatic petroleum solvent. Do not give anything by mouth to an unconscious person.
- IF IN EYES: Flush with plenty of water. Call a physician.
- IF ON SKIN: Remove contaminated clothing and immediately wash skin with soap and water.
- IF INHALED: Remove victim to fresh air. Apply artificial respiration if indicated.

Net Contents: _____

EPA Reg. No. 66222- _____

EPA Est. No. _____

Manufactured By
Makhteshim-Agan of North America Inc.
551 Fifth Avenue, Suite 1100
New York, NY 10176



PRECAUTIONARY STATEMENTS

Hazards to Humans And Domestic Animals

WARNING

May be fatal if swallowed. May be fatal if absorbed through skin or clothing. Do not get in eyes, on skin or clothing. Avoid breathing of vapors. Wash thoroughly after handling. Do not wear contaminated clothing. Keep away from food, feed stuffs and water supplies.

NOTE TO PHYSICIAN: Chlorpyrifos is a cholinesterase inhibitor. Treat symptomatically. If exposed, plasma and red blood cell cholinesterase tests may indicate degree of exposure (baseline data are useful). Atropine, only by injection, is the preferable antidote. Oximes, such as 2-PAM/protopam, may be therapeutic if used early; however, use only in conjunction with atropine. In case of severe acute poisoning, use antidotes immediately after establishing an open airway and respiration.

ENVIRONMENTAL HAZARDS

This pesticide is extremely toxic to fish, birds, and other wildlife. Do not apply directly to water. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent aquatic sites. Cover or incorporate spills. Do not contaminate water by cleaning of equipment or disposal of equipment washwaters.

PHYSICAL OR CHEMICAL HAZARDS COMBUSTIBLE!

Do not use or store near heat or open flames. Do not cut or weld container.

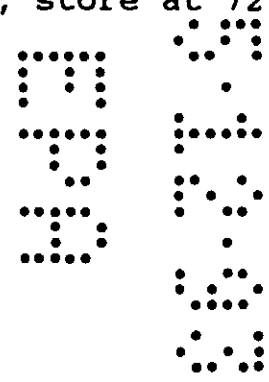
DIRECTIONS FOR USE

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

STORAGE AND DISPOSAL

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

STORAGE: Storage below 23° F may be result in formation of crystals. If product crystallizes out of solution, store at 72° F to 90° F and agitate to redissolve crystals.



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 Hazardous Waste representative at the nearest EPA Regional Office for guidance.

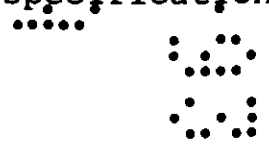
CONTAINER DISPOSAL: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

SAFE HANDLING PROCEDURES

Wear suitable 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.

SUBTERRANEAN TERMITES

Pyrinex Termiticide Concentrate for soil treatment is used to establish a barrier which is lethal to termites. The chemical emulsion must be adequately dispersed in the soil to provide a barrier between wood in the structure and the termite colonies in the soil. It is necessary for the effective use of this product that the service technician be familiar with current control practices including trenching, rodding, subslab injection, and low pressure spray applications. These techniques must be correctly employed to prevent or control infestations by subterranean termite species of RETICULITERMES, ZOOTHERMOPSIS, and COPTOTERMES. Choice of appropriate procedures includes consideration of such variable factors as the design of the structure, water table, soil type, soil compaction, grade conditions, and the location and type of domestic water supplies. The biology and behavior of the involved termite species are important factors to be known as well as suspected location of the colony and severity of the infestation within the structure to be protected. For advice concerning current control practices for specific local conditions, consult resources in structural pest control. Contamination of public and private water supplies must be avoided by following these precautions: Use antiback-flow equipment or procedures to prevent siphonage of pesticide back into water supplies. Do not treat structures that contain cisterns or wells. Do not treat soil that is water saturated or frozen. Consult state and local specifications for recommended distances of treatment areas from wells, and refer to Federal Housing Administration Specifications



for further guidance. All nonessential wood and cellulose containing materials, including scrap wood and form boards, should be removed from around foundation walls, crawl spaces, and porches. This does not include existing structural soil contact wood that either has been or needs to be treated.

PRECONSTRUCTION SUBTERRANEAN TERMITE TREATMENT

Effective preconstruction subterranean termite control requires the establishment of an unbroken vertical and/or horizontal chemical barrier between wood in the structure and the termite colonies in the soil. To meet F.H.A. termite proofing requirements, follow the latest edition of the Housing and Urban Development (H.U.D.) Minimum Property Standards. Use a 1% water emulsion for subterranean termites. Mix 2 gallons of Pynex Termiticide Concentrate in 98 gallons of water to produce a 1% water emulsion. After grading is completed and prior to the pouring of the slab, slab supported/constructed porches, or entrance platforms, make the following treatments. Applications shall be made by a low pressure spray for horizontal barriers over areas intended for covering floors, porches and other critical areas. Establish a vertical barrier in areas such as around the base of foundations, plumbing, backfilled soil against foundation walls and other critical areas.

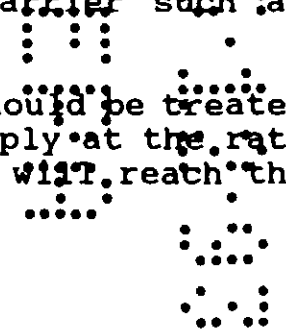
1. Where it is necessary to produce a horizontal barrier, apply the emulsion at the rate of 1 gallon per 10 square feet to fill dirt. If fill is washed gravel or other coarse material, apply at 1 1/2 gallons per 10 square feet. It is important that the emulsion reaches the soil substrate.

a. If concrete slabs cannot be poured over soil the same day it has been treated, a waterproof cover, such as polyethylene sheeting, should be placed over the soil to prevent disturbance of the termiticide barrier.

2. To produce a vertical barrier, apply the emulsion at the rate of a 4 gallons per 10 linear feet per foot of depth.

- a. Rodding and/or trenching applications should not be made below the top of the footing.
- b. Trench need not be wider than 6 inches.
- c. Rod holes should extend from the base of the trench to the top of the footing, and should be spaced (about a foot) to provide a continuous barrier.
- d. Emulsion should be mixed with the soil as it is being replaced in the trench. Cover treated soil with a layer of untreated soil, or other suitable barrier such as polyethylene sheeting.

3. Hollow block foundations or voids of masonry should be treated to make a continuous chemical barrier in voids. Apply at the rate of 2 gallons of emulsion per 10 linear feet so it will reach the footing.



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4. For crawl spaces apply at the rate of 4 gallons of emulsion per 10 linear feet per foot of depth from grade to bottom of foundations. Application may be made by rodding and/or trenching (utilizing low pressure spray). Treat both sides of foundation and around all piers and pipes.

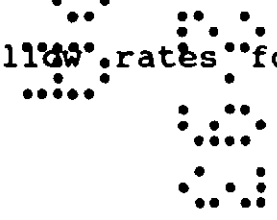
- a. Rod holes should be spaced (about 1 foot) to provide a continuous chemical barrier.
- b. Trench need not be wider than 6 inches nor below the foundation. The emulsion should be mixed with the soil as it is being replaced in the trench. Cover the treated soil with a layer of untreated soil or other suitable barrier such as polyethylene sheeting.
- c. Do not apply this product in any manner to an area intended as a plenum air space.
- d. Do not apply this product as an overall treatment to soil in crawl spaces. All holes drilled in construction elements for treatment should be securely plugged.

POSTCONSTRUCTION TREATMENTS

Use a 1% emulsion for subterranean termites. Mix 2 gallons of Pynrex Termiticide Concentrate in 98 gallons of water to produce a 1% emulsion. Postconstruction applications shall be made by injection, rodding, and/or treatment (using low pressure spray). Do not apply emulsion until location of heat or air conditioning ducts, vents, water and sewer lines and electrical conduits are known and identified. Extreme caution must be taken to avoid contamination of these structural elements and airways.

1. For slab on ground construction apply at the rate of 4 gallons of emulsion per 10 linear feet. Applications may be made by sub-slab injection and/or trenching. Injectors should not exceed beyond the tops of the footings. Treat along the outside of the foundation and where necessary just beneath the slab along one side of interior partitions and along all cracks and expansion joints.

- a. Drill holes in the slab to provide a continuous chemical barrier.
- b. Where necessary, drill through the foundation walls from the outside and force the emulsion just beneath the slab either along the inside of the foundation or along all the cracks and expansion joints and other critical areas.
- c. For shallow foundations, 1 foot or less, dig a narrow trench approximately six inches wide along the outside of the foundation walls. Do not dig below the bottom of the foundation. The emulsion should be applied to the trench and the soil at 4 gallons per 10 linear feet as the soil is replaced in the trench. Cover the treated soil with a layer of untreated soil.
- d. For foundations deeper than 1 foot follow rates for basements.



2. Hollow block foundation or voids of masonry should be treated to make a continuous chemical barrier in voids. Apply at the rate of 2 gallons of emulsion per 10 linear feet.

3. For basements apply at the rate of 4 gallons of emulsion per 10 linear feet. Where footings are greater than 1 foot of depth from the grade to the bottom of the foundation application may be made by trenching and/or rodding at the rate of 4 gallons of emulsion per 10 linear feet per foot of depth. Treat outside of foundation walls, and if necessary beneath the basement floor along inside of foundation walls, along cracks in basements floors, along interior load bearing walls, around sewer pipes, conduits, and piers.

4. In crawl spaces apply at the rate of 4 gallons of emulsion per 10 linear feet per foot of depth from grade to bottom of foundation. Application may be made by rodding and/or trenching (utilizing low pressure spray). Treat both sides of foundation and around all piers and pipes.

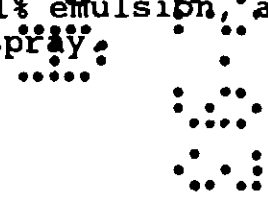
- a. Rod holes should be spaced (about 1 foot) to provide a continuous chemical barrier.
- b. Trench need not be wider than 6 inches nor below the foundation. The emulsion should be mixed with the soil as it is replaced in the trench. Cover the treated soil with a layer of untreated soil or other suitable barrier such as polyethylene sheeting.
- c. For inaccessible crawl spaces, treat soil by an alternate method such as drilling and rodding through foundation walls from the outside. All treatment holes drilled in construction elements of living areas of homes should be securely plugged.

RETREATMENT RESTRICTIONS

1. Retreatment for subterranean termites should only be made when there is evidence of reinfestation subsequent to the initial treatment, or there has been a disruption of the chemical barrier in soil due to construction, excavations, landscaping, etc.

2. Retreatments may be made to critical areas in accordance with the application techniques described above. This application should be made as a spot treatment to these areas. Routine retreatment of the entire premises should be avoided.

CONTROL OF WOOD INFESTING BEETLES, CARPENTER ANTS AND TERMITES (Localized Areas in Structures) Dosage and Mixing. Instructions: Pynrex Termiticide Concentrate is recommended for use as an aqueous emulsion containing 0.5% or 1% chlorpyrifos. To prepare a 0.5% emulsion add 1 1/2 fl. oz. (40 ml) of concentrate to every gallon of final spray mixture desired. To prepare 1% emulsion, add 2 1/2 fl. oz. (80 ml) of concentrate per gallon of spray.



To control wood-infesting beetles of the families LYCTIDAE, BOSTRICHIDAE, ANOBIIDAE, AND CERAMBYCIDAE in homes and other structures, apply as an emulsion containing 0.5% or 1% chlorpyrifos. For treatment of small areas, apply by brushing the emulsion evenly on wood surfaces. For large or overhead areas, apply as a coarse spray to the point of runoff. When spraying overhead interior areas of homes, apartment buildings, etc. to the point of runoff, cover all surfaces below the area being sprayed with plastic sheeting or other material which could be disposed of by placing in trash if contamination from dripping occurs. Sprayed surfaces should be avoided until the spray has totally dried. Do not apply in food serving areas while food is exposed. 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.

For control of carpenter ants in homes and other structures, apply as a 0.5% or 1.0% chlorpyrifos solution around doors and windows and other places where carpenter ants enter the premises and where they crawl and hide. Also spray into cracks and crevices or through openings or small newly drilled holes into wall voids where these ants or their nests are present. Use a sufficient amount of coarse spray to cover the area to the point of run-off.

For control of termites (localized areas of infested wood in structures) apply a 0.5% or 1.0% emulsion to voids and channels in damaged wood and in spaces between wooden members of a structure and between wood and foundations where termite infestation is likely to occur. Application may be made in inaccessible areas by drilling, and then injecting the emulsion. Use a sufficient amount of coarse spray to cover the area to the point of run-off. Treatment of localized areas is intended to kill workers and winged reproductive forms of termites in the treated areas and to prevent infestations for a temporary period. This type of application is not intended to be a substitute for soil treatment or mechanical alteration to control subterranean termites.

CONDITIONS OF SALE

All statements concerning the use of this product apply only when used as directed.

THE MANUFACTURER MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, CONCERNING THIS PRODUCT OR ITS USE, WHICH EXTEND BEYOND THE DESCRIPTION ON THE LABEL.

Read All Directions Carefully.

draft - 11 May 1993

