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550-113

PM 15

BRR 10/4

7 SEP 1984

Mr. Dennis Prober  
Van Waters & Rogers  
Division of Univar  
2256 Junction Avenue  
San Jose, CA 95131

Dear Mr. Prober:

Subject: Conditional Registration Application  
Amendments - Update Formula Statement,  
Change Product Name  
Manco Lindane 200 Emulifiable  
EPA Registration No. 550-113  
Your Application Dated June 18, 1984

The updated statement of formula is acceptable and has been added to this product's registration file. Note for your records that the individual ingredient weights total 18,010 lb. by our calculations. Accordingly, the individual percents are slightly different from the values given in block 15 of the Confidential Statement of Formula. This does not affect the validity of the label declarations.

The amendment to change the product name, submitted in connection with registration under FIFRA, is acceptable, provided that you make the labeling changes listed below before you release the product for shipment bearing the amended labeling:

1. Delete from the Directions for Use: "To be applied only by or under the supervision of pest control operators or other trained personnel responsible for pest control programs."

Also delete: "Per Sale To, Storage and Use By Only Pest Control Operators Or Other Trained Personnel Responsible For Pest Control Programs," from under the product name. The correct restriction already appears at the top of the front panel.

2. As noted in our March 6, 1984, letter, in paragraph "g" of the Postconstruction Treatments directions, "Where wooden stairs, etc.," change "with chlordane solution" to "with lindane solution."

BEST AVAILABLE COPY

Submit Five (5) copies of your revised final printed labeling before you release the product for shipment with the amended labeling.	DATE	BY					

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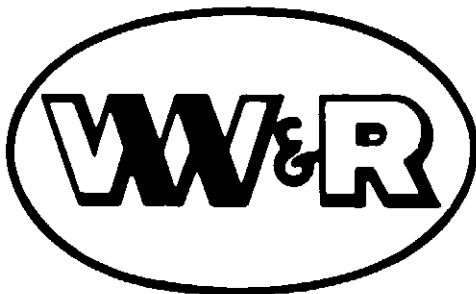
A stamped copy of the label is enclosed for your records.

Sincerely yours,

George T. LaRocca  
Product Manager (15)  
Insecticide-Rodenticide Branch  
Registration Division (TS-767)

RD/IRB:LaRocca:DCR-50411:WANG-0150L:eg:Raven:479-2013:8/31/84:Del.9/16/84

**RESTRICTED USE PESTICIDE**  
 FOR RETAIL SALE TO AND USE ONLY BY CERTIFIED  
 APPLICATORS OR PERSONS UNDER THEIR DIRECT  
 SUPERVISION, AND ONLY FOR THOSE USES COVERED  
 BY THE CERTIFIED APPLICATOR'S CERTIFICATION



ACCEPTED  
 with COMMENTS  
 by EPA Letter 11/13/81

SEP 7 1981

Under U.S. Department of  
 Agriculture  
 Registration

550-113

# Lindane 20%

## Emulsifiable

For Sale To, Storage and Use By  
 Only Pest Control Operators Or Other Trained  
 Personnel Responsible For Pest Control Programs.

**ACTIVE INGREDIENTS:**  
 Gamma Isomer of Benzene  
 Hexachloride (from Lindane) ..... 20.0%

**INERT INGREDIENTS:** ..... 80.0%

Contains 1 pound lindane per gallon.

**BEST AVAILABLE COPY**

**KEEP OUT OF REACH OF CHILDREN**  
**CAUTION**  
**STATEMENT OF PRACTICAL TREATMENT: FIRST AID**

If swallowed: **Get immediate medical assistance;** call a Poison Control Center or physician. Gastric lavage is indicated if material was taken internally. **Do not induce vomiting;** vomiting may cause aspiration pneumonia.

If inhaled: Remove victim to fresh air. Apply respiration if indicated.

If on skin: Remove contaminated clothing and other personal articles, wash affected area with soap and (warm) water.

If in eyes: Flush eyes thoroughly for at least 15 minutes with plenty of low pressure water. **Get immediate medical attention.**

**STORAGE:** Do not contaminate water.  
**Storage:** Store in a cool, dry area.  
**General:** Do not store near heat or fire.  
**Pesticide Disposal:** Pesticide waste, spray mixture, or rinseate is a violation of by use according to label instructions. Contact the Environmental Protection Agency, or the Hazardous Waste Control Agency, or the Hazardous Waste Office for guidance.  
**Container Disposal:** Triple rinse, or puncture and dispose of in accordance with state and local authorities. Alteration, or if allowed by state and local authorities.

**Conditions of Sale and Warranty:**  
 The Directions for Use of this product are believed to be reliable and safe. Risks inherently associated with use of this product may result because of such manner of use or application all of which are assumed by the Buyer.

**SELLER MAKES NO WARRANTY, OR THE USE OF THIS PRODUCT ASSUMES ALL RISK OF USE AND OR HANDLING IS CONTRARY TO**

When used for soil treatment are used, emulsions must be adequately dispersed in the termite colonies in the soil.

If necessary for the effective use of the product, including trenching, ridding, and other techniques must be correctly employed to the termite colonies. Consideration of such variable factors as grade conditions, and the location and involved termite species are important. Severity of the infestation within the structure for specific local conditions, construction methods, and other factors must be considered.

Contamination of public and private water and back flow equipment or procedure treat structures that contain cisterns or and local specifications for recognition. This is by Administration Specifications.

All nonessential wood and cellulose contact removed from around foundation walls and soil contact wood that either has been.

The directions shown below are where odor may be a problem, the necessary.

**PRECONSTRUCTION SUBTERRANEAN AND/OR HORIZONTAL CHEMICAL BARRIER BETWEEN FOUNDATION WALLS AND SOIL:**  
 Effective preconstruction subterranean and/or horizontal chemical barrier between foundation walls and soil. Minimum Property Standards.

Use a 0.8% water emulsion (or solution of water) to produce a 0.8% water emulsion.

After grading is completed and professional entrance platforms, make the following horizontal barriers over areas intended.

Establish a vertical barrier in areas such as foundation walls and other critical areas.

1) Where it is necessary to produce a barrier.

in eyes. Flush eyes thoroughly for at least 15 minutes with plenty of low pressure water. Get immediate medical attention.

**NOTE TO PHYSICIAN:** This product contains aromatic petroleum solvents and cyclohexane.

## PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS & DOMESTIC ANIMALS

Harmful if swallowed. Do not swallow. Contact with skin may cause toxic symptoms. May be injurious to eyes and skin. Wash thoroughly after handling. Wash contaminated clothing before reuse. Avoid breathing vapors and spray mist. Handle concentrate in a ventilated area.

The following personnel protective devices and clothing are prescribed when mixing or handling this product: All persons shall wear at the minimum a water-resistant hat; lightweight protective suit or coveralls; unlined, lightweight boots. Mixers shall add goggles or a face shield and water-proof gloves and apron. Persons working in enclosed areas such as crawl spaces should wear a respirator approved by MSHA/OSHA for protection against this material.

### ENVIRONMENTAL HAZARDS

This product is toxic to fish, birds, and other wildlife. Use with care when applying in areas adjacent to any body of water. Keep out of lakes, streams, ponds, tidal marshes and estuaries. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not apply when weather conditions favor drift or run-off from treated areas. Apply only as specified.

### PHYSICAL OR CHEMICAL HAZARDS

**COMBUSTIBLE MIXTURE:** Do not use, pour, spill, or store concentrate near heat or open flame. Keep container closed.

Manufactured By

**Van Waters & Rogers**  
division of Univar

San Mateo, CA 94403

05033754

(Rev. 6/84)

EPA Reg. No. 550-113-AA

## DIRECTIONS FOR USE

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

To be applied only by or under the supervision of pest control operators or other trained personnel responsible for pest control programs.

**BEST AVAILABLE COPY**

Continued on reverse

- 1) Where it is necessary to produce a horizontal barrier, apply the emulsion (or solution) at the rate of 1 gallon per 10 square feet to fill dirt. If this is washed grade or other coarse material, apply 1 gallon per 10 square feet. It is important that the emulsion (or solution) reaches the soil substrate.
  - a) If concrete slabs cannot be poured over soil the same day it has been treated, a water-proof cover such as polyethylene sheeting should be placed over the soil. This is not necessary if foundation walls have been installed around the treated soil.
- 2) To produce a vertical barrier, apply the emulsion at the rate of 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 (or solution) 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 (or solution) per 10 linear feet soil wall reach the footing.
- 4) For crawl spaces apply at the rate of 4 gallons of emulsion (or solution) per 10 linear feet and 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 (or solution) 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.

## POSTCONSTRUCTION TREATMENTS

Use a 0.8% water emulsion (or solution) for subterranean termites. Mix 2 gallons of this product in 250 gallons of water to produce a 0.8% water emulsion (or solution).

Post-construction applications shall be made by injection, rodding and/or trenching, using low pressure spray.

Do not apply emulsion (or solution) 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 (or solution) per 10 linear feet. Applications may be made by sub-slab injection and/or trenching. Injectors should not extend beyond the tops of the footings. Treat along the outside of the foundation and where necessary, just beneath the slab on the inside of foundation walls. Treatment may also be required 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 (or solution) 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 (or solution) 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 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 (or solution) per 10 linear feet.
- 3) For basements apply at the rate of 4 gallons of emulsion (or solution) 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 (or solution) 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 basement 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 (or solution) 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.
- 5) Where wooden stairs, stoops, trellises, etc. are in contact with the soil and adequate mechanical alterations cannot be made, treatment with Chlordane solution in the identified area may aid in controlling or preventing infestation by subterranean termites. Other areas which should be given attention are possible entry ways around basement windows, pipes which penetrate basement or foundation walls.

All treatment holes drilled in construction elements of living areas of homes should be securely plugged.

## RETREATMENT RESTRICTIONS

- 1) Retreatment for subterranean termites should be made only when there is evidence of re-infestation subsequent to the initial treatment, or there has been a disruption of the chemical barrier in the soil due to construction or maintenance activities.

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