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17/3

JAN 16 1985

Ms. Judith A. Thompson  
Hopkins Agricultural Chemical Co.  
P.O. Box 7532  
Madison, WI 53707

345/138957  
17/4

Dear Ms. Thompson:

Subject: Amendment - Updated Label and Formula  
Hopkins Lindane-20 E.C.  
EPA Registration No. 2393-474  
Your Application Dated August 21, 1984

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. A stamped copy is enclosed for your records.

1. Prior to marketing make the following revisions to the label:

- a) The correct label definition for lindane is "Lindane (gamma isomer of benzene hexachloride)."
- b) Delete the word "Flammable" from the fire hazard statement since your stated lower limit is not below 80°F. Also supply an upper limit for the flash point.

Sincerely yours,

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

Enclosure

RD/IRB:JOB:50430:G.T.LaRocca:RD-07:Kim:Kenderick:898-1270:1/7/85:Del.1/15/85

| CONCURRENCES |         |  |  |  |  |  |  |
|--------------|---------|--|--|--|--|--|--|
| SYMBOL ▶     |         |  |  |  |  |  |  |
| SURNAME ▶    | LaRocca |  |  |  |  |  |  |
| DATE ▶       | 1/9/85  |  |  |  |  |  |  |

RESTRICTED USE PESTICIDE

For use only by persons certified by the Federal Application of Pesticides Act  
and only in the manner specified by the Federal Application of Pesticides Act

*Hopkins®*

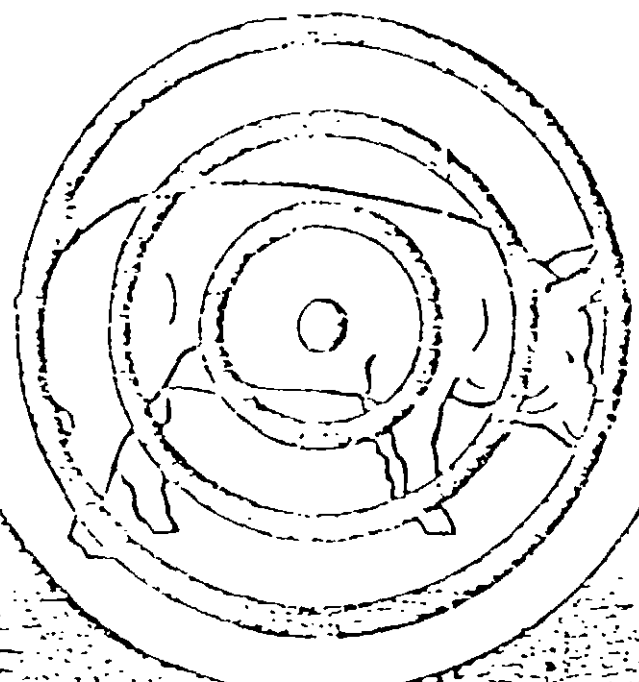
LINDANE-20

Emulsifiable Concentrate

ACCEPTED  
with COMMENTS  
B. F. ...

JA 935

2343-474



CONTAINS

1.6 POUNDS LINDANE PER GALLON

Insecticide Concentrate containing 20% by weight of LINDANE  
to be diluted with water or deodorized Kerosene for use.  
Properly mixed and applied will control FLIES, MOSQUITOES,  
TICKS, LICE, CHIGGERS and certain other insects as listed.

ACTIVE INGREDIENT :

Lindane (1,2,3,4,5,6-hexachlorocyclohexane) . . . 20%

INERT INGREDIENTS:

TOTAL . . . 100%

KEEP OUT OF REACH OF CHILDREN  
CAUTION

12 pt.  
18 pt.

See Side Panel for Additional Precautions

NET CONTENTS

## STATEMENT OF PRACTICAL TREATMENT

- If swallowed - Call a physician or Poison Control Center immediately. DO NOT INDUCE VOMITING. Vomiting may cause aspiration pneumonia.
- If inhaled - Remove victim to fresh air. Apply artificial respiration if indicated.
- If on skin - Remove contaminated clothing and wash affected areas with soap and water.
- If in eyes - Flush eyes with plenty of water. Call a physician immediately.

Note to Physician - Solvent presents aspiration hazard. Gastric lavage is indicated if material was taken internally.

## PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

- ( ) DO NOT apply Lindane where it will contaminate fruit or vegetables or where any livestock will graze.
- Do not treat sows within two weeks of farrowing nor for at least three weeks thereafter.
- Do not treat overheated or sick animals. Do not treat animals in cold or stormy weather.
- Do not treat animals under three months of age.
- Do not use on poultry, dogs, cats, other household pets, or humans.
- Do not use on dairy cattle.
- Do not use in poultry houses, dairy barns or milk rooms.

HARMFUL IF SWALLOWED. HARMFUL VAPOR AND MIST MAY BE ABSORBED THROUGH SKIN. MAY PRODUCE IRRITATION OF SKIN AND EYES.

- Avoid breathing of vapor or spray mist. Avoid contact with eyes or skin.
- In case of skin contact, wash thoroughly with soap and water. For eyes, flush with plenty of water.
- ( ) Wash thoroughly after handling and before eating or smoking.
- Keep children and pets out of treated area until sprayed surfaces are dry.

Applicators must wear the following protective clothing during the application process: A lightweight protective suit or coveralls; water-resistant hat; unlined, waterproof gloves; and unlined, lightweight boots. Mixers and loaders must also wear goggles or a face shield, waterproof gloves and a waterproof apron.

Applicators working in enclosed areas, such as crawl spaces, must wear a pesticide respirator jointly approved by MSHA (Mine Safety and Health Administration) and by NIOSH (National Institute for Occupational Safety and Health) under the provisions of 30 CFR Part 11 for Lindane protection.

Thoroughly air rooms after treatment before allowing persons or pets to enter.

Do not use in edible products areas of food processing plants, restaurants or other areas where food is commercially prepared or processed. Do not use in serving areas while food is exposed.

Avoid contamination of feed and foodstuffs.

## ENVIRONMENTAL HAZARDS

This product is toxic to fish, birds and other wildlife. Birds and other wildlife feeding in treated areas may be killed. Keep out of lakes, streams and ponds. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from areas treated. Do not contaminate water by cleaning of equipment or disposal of wastes.

This pesticide is highly toxic to bees exposed to direct treatment or to residues remaining on the treated area. Do not apply when bees are actively visiting vegetation blooming in the treatment area. Applications should be timed to provide the maximum possible interval between treatment and the next period of bee activity.

## ( PHYSICAL OR CHEMICAL HAZARDS

FLAMMABLE -- Do Not use, pour or store near heat or open flame.

## NOTICE OF WARRANTY

Manufacturer and Seller make no warranty of merchantability, fitness for any purpose or otherwise, express or implied, concerning this product or its use, which extends beyond the statements on this label.

EPA Reg. No. 2393-474

EPA Est. No. 2393-11-3<sup>(a)</sup>, 2393-W1-1<sup>(a)</sup>,

523-11-1<sup>(a)</sup>, 2393-W1-2<sup>(a)</sup>, 33509-MO-1<sup>(a)</sup>,

Superscript refers to first letter of lot number

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MANUFACTURED BY  
HOPKINS AGRICULTURAL CHEMICAL CO.  
P.O. Box 7532  
Madison, Wisconsin 53707 U.S.A.

## DIRECTIONS FOR USE

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

CONSULT STATE AGRICULTURAL EXPERIMENT STATION FOR RECOMMENDATIONS FOR USE UNDER LOCAL CONDITIONS.

FOR CONTROL OF TICKS AND LICE ON BEEF CATTLE AND HORSES AND FOR THE CONTROL OF TICKS, LICE AND MANGE (SARCOPTIC AND PSOROPTIC) ON HOGS: Use at the rate of 1 pint in 50 gallons of water. Do not dip within 60 days and do not spray within 30 days of slaughter. Do not use on dairy animals. Do not use on animals under three months old. Use half rate, 1/2 pint, to 50 gallons of water on young animals but over three months old.

FOR CONTROL OF TICKS, LICE AND MANGE (SARCOPTIC AND PSOROPTIC) ON BEEF CATTLE, SHEEP AND GOATS: Use 7/8 pint of this product per 50 gallons of water as a dip or spray treatment. Use at same rate for sheep after clipping. Repeat treatments at 14 day intervals as needed. Do not spray within 30 days of slaughter or dip within 60 days of slaughter. DO NOT USE ON DAIRY ANIMALS. Do not use on animals under three months old.

CAUTION: Sprays and dips for young animals, but over three months old should be prepared at the rate of 1/2 pint to 50 gallons of water.

Do not use on animals under three months old.

Do not spray animals within 30 days of slaughter or dip animals within 60 days of slaughter.

PRECAUTIONS: Before spraying with Lindane, remove or cover all feed and cover food and water troughs or flush them out thoroughly with water from a pressure hose immediately after spraying and before spray deposit has dried. Do not use in dairy barns or milk rooms or in any way that may result in contamination of feed or foodstuffs.

Used dip solutions must be disposed of in accordance with the Resource Conservation and Recovery Act (RCRA). If the applicator generates more than 1000 kg (2200 lbs.) of used dip solution per month or more than 1000 kg (2200 lbs.) used dip solution in combination with other hazardous wastes, the material must be treated as a hazardous waste subject to subpart C of RCRA. Any user who wishes to treat, store or dispose of hazardous waste, must obtain a permit to serve as a hazardous waste facility pursuant to RCRA.

FOR RESIDUAL CONTROL OF FLIES AND MOSQUITOES IN BARNES AND IN INDUSTRIAL PLANTS: Do not use in poultry houses, dairy barns or milk rooms. Never use residual spray dilutions on animals.

FLIES AND MOSQUITOES: Mix 4 tablespoons in 1 gallon of water or 1 quart in 15 gallons of water. Apply as a coarse wet spray to walls, ceilings, beams, screen window frames, posts, partitions and similar places where flies gather, also manure sheds, loafing sheds and hog houses. Repeat treatments every 30 days or as control diminishes.

Thoroughly air buildings after treatment before allowing persons or animals to enter.

Where the use of water is not desirable, dilute 1 quart of Lindane-20 E.C. in 15 gallons of deodorized kerosene and apply the diluted solution in the manner and at the rates given above.

TICKS AND CHIGGERS ON VEGETATION: Lawns, recreation areas, campgrounds, golf courses. Mix 1 quart thoroughly in 25 gallons of water and apply at the rate of about 1 gallon to 1000 square feet. Cylindrical or knapsack type hand sprayer may be used over small areas, but power equipment will be most satisfactory for large acreages. Treat ground litter, soil and the lower parts of plants with this spray.

## STORAGE AND DISPOSAL

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

Storage: Do not use or store near heat or open flame. Keep product in original container, tightly closed. This product does not freeze or crystallize at storage temperatures of 0°F. or higher. It should be allowed to warm to at least 40°F., and then be agitated before use, if lindane crystals have precipitated out of solution at temperatures below 0°F.

Pesticide Disposal: Pesticide wastes are toxic. Improper disposal of excess pesticides, 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 at the nearest EPA Regional Office for guidance.

Container Disposal: Triple rinse (or equivalent). Do not reuse container. Send to a local office for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.