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ACCEPTED
with COMMENTS
in EPA Letter Dated:

R I G O

APR 13 1984

LINDANE CONCENTRATE

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

INSECT SPRAY

70-163

For control of sarcoptic mange, lice, fleas and ticks on dogs.
Also for control of listed insects on ornamentals and fruit trees.

ACTIVE INGREDIENTS:

Lindane (Gamma Isomer of Benzene Hexachloride)..... 20.0%
Naphtha..... 38.2%

INERT INGREDIENTS:..... 41.8%

TOTAL 100.0%

Keep Out Of Reach Of Children (10 pt.)

C A U T I O N (14 pt.)

See back panel for additional precautionary statements.

EPA Reg. No. 70-163
EPA Est. No. 70-KY-1

NET CONTENTS

Manufactured by
RIGO COMPANY
BUCKNER, KENTUCKY 40010

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND
DOMESTIC ANIMALS

CAUTION

Keep out of reach of children. Children should not be allowed to handle or apply this product. Harmful if swallowed. Avoid inhalation of spray mist. Avoid skin contact. Harmful vapors may be absorbed through the skin. Wash thoroughly with soap and water. Avoid contamination of food or foodstuffs. Food utensils such as teaspoon or measuring cup should not be used for food purposes after using with insecticide.

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED drink one or two glasses of water and induce vomiting by touching back of throat with finger. Repeat until vomit fluid is clear. Keep patient prone and warm. Call a physician immediately. There may be an aspiration hazard associated with emesis. Do not induce vomiting or give anything by mouth to an unconscious person.

IF INHALED remove victim to fresh air. Apply respiration if indicated.

IF ON SKIN wash immediately with soap and water.

IF IN EYES flush with water for at least 15 minutes. Get medical attention immediately.

ENVIRONMENTAL HAZARDS

This product is toxic to fish and wildlife. Birds feeding on treated areas may be killed. Keep out of any body of water. Do not apply when weather conditions favor drift from treated areas. Do not apply where runoff is likely to occur. Do not contaminate water by cleaning of equipment or disposal of waste.

PHYSICAL OR CHEMICAL HAZARDS

Do not use, pour, spill, spray, or store near heat or open flame.

DIRECTIONS FOR USE

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

DISPOSAL

Do not reuse empty container. Wrap container and put in trash collection.

NOTE: Read precautionary statements and directions thoroughly before using. Apply this product only as specified on the label.

DOGS - For control of sarcoptic mange mites, fleas, ticks, or lice.

PROTECTIVE CLOTHING: Applicators must wear the following protective clothing during the treatment process: elbow-length, waterproof gloves; a waterproof apron; and unlined, waterproof boots.

MIXING: For control of sarcoptic mange mites, mix 1 1/2 teaspoonfuls of this product in one gallon of water. For control of fleas, ticks, or lice, mix 1 teaspoonful of this product on one gallon of water. Use caution in mixing, since improper dilution of this product could cause serious injury to your pet.

APPLICATION: Using a mechanical compressed-air sprayer adjusted to deliver coarse droplets, spray dog to wet hair thoroughly. For sarcoptic mange mites, apply once a week for two or more treatments as needed. For fleas, ticks, or lice, apply at 7 to 10 day intervals as needed but never more often than once per week.

RESTRICTIONS: Do not use this product as a dip. Do not use on cats or on nursing puppies or on bitches with suckling pups. Do not use more often than once a week. Do not allow children to play with dog until sprayed hair has dried.

KENNELS - For control of mites, fleas, ticks, lice, flies, roaches, ants, or mosquitoes.

PROTECTIVE CLOTHING: Applicators must wear the following protective clothing during the application process: long-sleeved shirt, long pants, waterproof gloves, full foot covering, and a head covering.

MIXING: Spray - Mix 4 Tablespoonfuls of this product per gallon of water. Paint - Dilute one part this product with nine parts water.

APPLICATION: Spray: Using a mechanical compressed-air sprayer adjusted to deliver coarse droplets, spray kennel walls, cracks and crevices thoroughly. Paint: Apply to windows, doors, and other places where insects congregate.

RESTRICTIONS: Never use the above dilutions directly on animals. Do not apply with lime in fresh whitewash or with other alkaline materials. Children and pets should not be allowed in treated areas until sprayed or painted surfaces are dry.

TREES AND SHRUBS - For control of borers and other listed insects

PROTECTIVE CLOTHING: Applicators must wear the following protective clothing during the application process: long-sleeved shirt, long pants, waterproof gloves, full foot covering, and a head covering.

MIXING and APPLICATION: See table below

TREES AND SHRUBS

Borer and Other Insect	Trees or Shrubs	Dosage	Time to Apply and Remarks
Leaf Miners	Elm, Locust Birch	1 Teaspoonful/ 1 gal. water	Apply when small miners appear in early and mid-May. For Locust early July.
Twig Girdler	Junipers	1 Tablespoonful/ 1 gal. water	Make 2 applications at 30 day intervals. No. Calif. - June and Mid-July. So. Calif. - April and May.
Pine Bark Beetles	Pines	1 pint/5 gals. water	Spray trunks thoroughly - wet trunks to run-off.
White Pine Weevil	Pine, Spruce	1 Tablespoonful/ gal. water	Apply late April when buds begin to swell. Spray upper parts of trees thoroughly.
Taxus Weevil	Taxus, Hemlock	1 Tablespoonful/ 1 gal. water	Apply in May or early June to the trunks and around base of trees soaking the bark and wetting the soil surface.
Bark Beetles, Wood Boring Beetles	Maple, Aspen, Poplar, Ash, Willows, Elm, Locust	3 pints/50 gals. water 2 Tablespoonfuls/ 1 gal. water	Apply in spring when buds begin to break. Elms - During summer. Soak trunks to run-off.
Thrips, Plum Curculio Flea Beetles	Apples, Pears, Plums, Peaches, Cherries	1 Teaspoonful/ 1 gal. water	Do not use on Apple, Pear, or Plum trees within 60 days of harvest. Do not apply to Peaches later than seven days after shuck split.
Fruit Tree Bark Beetles, Flat-Headed Borers, Round-Headed Borers	Apples, Cherries, Peaches	1 Tablespoonful/ 1 gal. water 3 pints/100 gals. water	Apply to bark of tree trunk and large limbs in spring. The application limitation in the label directions for the listed fruit crops should be observed. Apply to trunk, crotch to ground. Soak bark to run-off. Do not apply to fruit or foliage.
Peach Tree Borer	Peaches	3 pints/100 gals. water 1 Tablespoonful/ 1 gal. water	Spray lower trunk and around base of tree, soaking bark and wetting trunk from crotch to ground. Do not apply to fruit or foliage.
Dogwood Borer, Rhododendron Borer, Lilac Borer	Dogwood, Rhododendron, Lilac	1 Tablespoonful/ 1 gal. water	Make 2 to 3 applications 7 to 10 days apart in May and early June.
Iris Borer	Iris	1 Teaspoonful/ 1 gal. water	In early spring, destroy old leaves. Apply during April and May.

TOBACCO TRANSPLANTING - For protection of roots of newly set plants against wireworms and cutworms, mix and apply as follows:

MIXING: Mix 1 fluid ounce (2 Tablespoons) of this product in each 50 gallons of transplanting water.

APPLICATION: Apply this mixture at a rate of 1/2 pint per plant or about 250 gallons of the mixture per acre. From tobacco setter water tank, move transplanting water through hose to setter shoe, and dispense onto roots of plant mechanically as setter fingers release plant and plant roots are covered with soil inside setter shoe.

RESTRICTIONS: Do not dip tobacco roots directly into solution as root damage may occur. Do not apply to root crops nor use in soil to be planted to root crops within one year.

NOTICE: Seller makes no warranty, expressed or implied, concerning the use of this product other than indicated on the label. Buyer assumes all risk of use and/or handling of this material when such use and/or handling is contrary to label instructions.

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

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OFFICE OF
PESTICIDES AND TOXIC SUBSTANCES

Mr. James T. Gregory
Rigo Co.
P.O. Box 89
Buckner, KY 40010

Dear Mr. Gregory:

Subject: Lindane RPAR
Kill-Ko Lindane Concentrate Insect Spray
EPA Reg. No.: 70-163
Appl. Date: November 28, 1983

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable provided that you make the labeling changes listed below before you release the product for shipment bearing the amended labeling:

We note from your letter that you wish to "split" the subject product, having separate labels for the Certified Applicator and homeowner markets. Since you cannot have two different products under the same EPA Reg. No., you must submit an application for a new registration for the professional label. (This review concerns the homeowner label only.) Indicate on your application that you are splitting the new label from the registered label. (Data not required for a "split".) Please note: only Rigo Lindane Concentrate Insect Spray labeling was submitted.

1. There seems to be some discrepancy in this application: the last accepted label indicates Kill-Ko Lindane Concentrate, all previous labels indicate Kill-Ko..., the application indicates Kill-Ko..., however, the labeling submitted indicates Rigo Lindane Concentrate. Please correct.
2. Under "HAZARDS TO HUMANS..." revise the following:
"Wash thoroughly with soap and water after using and before eating or smoking."
(Underscore added to indicate added text; do not reproduce on the labeling.)
3. The STATEMENT OF PRACTICAL TREATMENT given is inadequate, please use the following:

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"STATEMENT OF PRACTICAL TREATMENT

- If swallowed-Call a physician or Poison Control Center immediately.
If possible vomiting should be induced under medical supervision. Drink one or two glasses of water and induce vomiting by touching the back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.
- 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."

- 4. Revise the first two sentences in the "ENVIRONMENTAL HAZARDS" to read as follows: "This product is toxic to fish, birds and other wildlife. Birds and other wildlife feeding on treated areas may be killed.

(Underscore indicates added text and should not be reproduced on the labeling.)

- 5. Add a beneficial insect caution to appear under the heading "ENVIRONMENTAL HAZARDS" as follows:
"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 the crop, cover crop, or weeds blooming in the treatment area. Applications should be timed to provide the maximum possible interval between treatment and the next period of bee activity."

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

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

If you hold a Federal registration, a supplemental registration, or a Special Local Needs registration, you may continue to produce new stocks of such products, using current labeling, until May 1, 1984. After that date, all remaining inventories of affected products will fall under the Existing Stocks provisions stated in our letter of October 28, 1983.

Sincerely yours,

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

Enclosure