

AUG 14 1991

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C.D. Gunderson
USS Agri-Chemicals
Division of Untied States Steel
1100 Johnson Ferry Rd., NE
Atlanta, GA 30342

Dear Mr. Gunderson:

Subject: Reregistration of Products Containing Lindane
Vertagreen Lindane 20% Concentrate
EPA Registration No. 3442-739
Your Application Dated January 13, 1986

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 indicated below prior to release for shipment of product bearing the amended labeling.

1. Delete "xylene" from the ingredients statement, since it is not active in this formulation, and add its percentage to that of the inerts. Then add a footnote to the "Inert Ingredients" indicating "contains xylene".
2. Revise the Environmental Hazards statement as follows:

This pesticide is toxic to fish, birds, and other wildlife. Do not apply directly to water, to areas where surface water is present or to intertidal waters below the mean high water mark. Drifts and runoff from treated areas may be hazardous to fish in neighboring areas. Do not contaminate when disposing of equipment washwaters.
3. The re-entry precautionary statements must be grouped together under the heading RE-ENTRY STATEMENT.
4. Delete "For Structural Treatment". There are no structural pests listed on the label nor instructions for controlling structural pests. The paragraph beginning "Applicators working in enclosed areas... etc.", should appear beneath the "Premise Spray and Treatments" paragraph.

CONCURRENCES

SYMBOL	5.	Add the qualifier "Livestock Building and Barns" to the Premise Spray directions.					
SURNAME	ICA						
DATE							

20x 10

"Premise Spray and Treatments (Livestock building and barns)"

6. Add the following precaution under Direction for Use:

"Do not apply this product through any type of irrigation system."

7. The restricted use heading and paragraph must be on the top center of the front panel and preferably blocked.

8. The livestock precautions under "Insect Control for Livestock" for both products Vertagreen Lindane 20 and 12.5% should be consistent. We suggest you review the use limitation in the Lindane Reregistration Guidance Document for livestock use and revise your labels accordingly.

In reference to the product chemistry, on the data matrix please provide the pH at a specific water dilution.

Submit five copies of your final printed labeling before you release the product for shipment. A stamped copy of the labeling is enclosed for your records.

Sincerely yours,

George T. LaRocca
 Product Manager 13
 Insecticide-Rodenticide Branch
 Registration Division (H7505C)

Enclosure

CONCURRENCES							
SYMBOL							
SURNAME							
DATE							

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RESTRICTED USE PESTICIDE

The use of this product may be hazardous to your health. This product contains lindane, which has been determined to cause tumors in laboratory animals. Risks can be reduced by closely following the use directions and precautions listed on this label and by wearing the protective clothing specified elsewhere on this label.

For retail sale to and use only by Certified Applicators or persons under their supervision and only for those uses covered by the Certified Applicator's certification.

VERTAGREEN
LINDANE 20%
CONCENTRATE

INSECT CONTROL FOR ORNAMENTALS - FRUIT TREES
- FLOWERS - BULBS - VEGETABLES -
LIVESTOCK AND RESIDUAL SPRAY

ACTIVE INGREDIENTS:	BY WEIGHT
Lindane (Gamma Isomer of Benzene Hexachloride).....	20.00%
Xylene.....	66.85%
INERT INGREDIENTS:.....	13.15%
TOTAL:.....	100.00%

EPA Reg. No. 3442-739

EPA Est. No. 3442-FL-2

WARNING

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 explicado ampliamente.

Note: Regarding above copy, minimum type size is:
18 Pt. for WARNING/AVISO
12 Pt. for KEEP OUT OF REACH OF CHILDREN

See Side Panel for Additional Precautionary Statements

NET CONTENTS: 1 Gal.

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Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the registration of this product under EPA Reg. No. 3442-739

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PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING

Causes eye damage and skin irritation. Do not get in eyes, on skin, or on clothing. May be fatal if swallowed or absorbed through the skin. Do not breathe vapor or spray mist. Use waterproof gloves, face shield or goggles, and protective clothing when handling. Wash hands, arms, and face thoroughly with soap and water after handling and before eating or smoking. Do not use on humans or household pets. Keep children and animals away from treated areas until spray has dried. Food utensils such as teaspoon or measuring cup should not be used for food purposes after use with pesticides. Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons.

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Call a physician or Posion Control Center immediately. 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 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. Get medical attention if irritation persists.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish, birds, and other wildlife. Do not apply directly to water or wetlands. Drift and runoff from treated areas may be hazardous to fish in neighboring areas. Do not contaminate water by cleaning of equipment or disposal of wastes.

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This pesticide is highly toxic to bees exposed to direct application. Applications should be timed to coincide with periods of minimum bee activity, usually between late evening and early morning.

PHYSICAL OR CHEMICAL HAZARDS

Do not use or store near heat or open flame.

Copy for Side Panel

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Aerial application of lindane is prohibited.

PROTECTIVE CLOTHING REQUIRED

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

**INSECT CONTROL FOR ORNAMENTALS, FRUITS TREES,
FLOWERS, BULBS AND VEGETABLES**

Soil application: Do not make soil application to root crops, which might absorb a musty flavor. Do not apply in soil which will be planted to root crops (except potatoes) within 1 year. Do not use in soil which will be planted to potatoes within 2 years.

The following insect Control Chart gives the plants that may be attacked by the listed insects with a dilution rate and comments for proper application.

(1 tsp = 1 fluid teaspoon; 1 tbsp. = 1 fluid tablespoon)

Plants	Insects	Dosage Rate In Fluid Measure	Comments
Elm, Birch, Locust, Holly	Leaf Miners	1tsp./gal. water OR 1 pint/100 gals.	Apply when adult miners appear in April & mid May. Treat when smaller miners appear in July.

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Pines	Pine Bark Beetles	3 fluid ounces per gal. water OR 1 gal./40 gal.	Apply to trunks up as high as sprayer will reach. Spray to point of run-off in April or May.
Pine, Spruce	White Pine Weevil	1 tbsp./gal. water OR 3 pints/100 gals.	Thoroughly spray entire tree in late April when buds swell.
Taxus, Hemlock	Taxus Weevil	1 tbsp./gal. water OR 3 pints/100 gal.	Apply in May or early June to the trunks & around tree base. Soak the bark and soil surface.
Dogwood, Lilac, Rhododendron	Dogwood Borer, Lilac Borer, Rhodo Borer	1 tbsp./gal. water OR 3 pts./100 gals.	Make 3 applications May 1st, June 1st., July 1st. Treat limbs, twigs and base of trunk
Apple, Peach, Cherry	Bark Beetles, Flat-Headed & Round Headed Borer	1 tbsp./gal. water OR 3pts./100 gals.	Apply to bark of tree and large limbs in spring. Apply to trunk, crotch to ground. Soak bark to run-off. Do not apply to fruit or foliage. Do not apply within 60 days of harvest.
Peaches	Peach Tree Borer	1 tbsp./gal. water OR 3 pts./100 gals.	Apply to bark of tree and large limbs in spring. Apply to trunk, crotch to ground. Soak bark to run-off. Do not apply within 60 days of harvest.
Maple, Aspen, Poplar, Willow, Locust	Aphids, Bark Beetles, Borers	2 tbsp./gal. water OR 3 qts./100 gals.	Apply in spring when buds begin to break. Repeat in 10-14 days. For Aphids, apply when present in summer and fall.
Birch	Bronze Birch Borer	1 tbsp./gal. water	Make 3 treatments: May 1st, June 1st July 1st; soak bark.
Bulbs(Tulip, Iris, Lilies)	Aphids, Bulb Fly, Iris Borer, Thrips	1 tbsp./gal. water	Treat when insects appear. For Iris borer soak soil around tuberous roots May and June
Vegetable Sets Cabbage	White Grubs, Cutworms, Wireworms, Soil Treatment	1 tbsp./2gal. water Use 2 gal. of mixture to treat 250 sq. ft. of soil area.	Do not apply after thinning. Do not treat plant foliage. Do not use in soil to be used for root crops. Apply around base of plant within 24 hours after sets are placed in soil. Repeat in 14 days.

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Melons, Peppers, Okra, Tomatoes	Same Insects as for Cabbage	Same rates as for Cabbage	Do not apply after edible parts start to form.
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Flowers, Roses, Petunias, Carnations, etc.	Aphids, Thrips, White Flies, Leafhoppers	1 tbsp./2½ gal. OR 1½ pt./100 gal.	Apply as insects appear. Repeat sprays as needed for control. Thoroughly spray.
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Do not plant any food or feed crop in rotation after a field treatment with lindane unless it is a registered use for lindane.

FOR STRUCTURAL TREATMENT

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

Copy for Side Panel (Continued)

Do not enter treated areas without protective clothing for 24 hours. Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. (Indicate specific oral warnings which inform workers of areas or fields that may not be entered without specific protective clothing, period of time field must be vacated and appropriate actions to take in case of accidental exposure). When oral warnings are given, warnings shall be given in a language customarily understood by workers. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. Written warnings must include the following information.

WARNING - Area treated with Lindane 20% Concentrate on (date of application). Do not enter without appropriate protective clothing for 24 hours. In case of accidental exposure refer to the Statement of Practical Treatment on the pesticide label.

PECAN INSECT CONTROL

Aerial application of Lindane is prohibited.

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PECANS: For control of Phylloxera (Galls) and the Hickory Shoot Curculio-Mix 1 quart of this product in 100 gallons of water (2 teaspoonsfuls per gallon of water). Apply with a power sprayer in the spring as a "Bud Break" spray (early to mid April when bud break is no more than 2 inches long) making only one application by thoroughly wetting all portions of the tree and new bud growth. Plan on using approximately 10 to 15 gallons of diluted spray per bearing tree when planted on 60 foot centers (approx. 24 trees per acre). Do not exceed 450 gallons of dilute spray per acre. Do not graze treated area. NOTE: This control is not effective when typical gall symptoms appear.

INSECT CONTROL FOR LIVESTOCK

Precautions-Do not apply to Dairy Cattle or Dairy Goats. Do not apply spray to Beef Cattle, Hogs, Sheep or Goats within 30 days of slaughter.

Do not apply to these animals within 30 days of giving birth to young nor for at least 3 weeks thereafter. Do not treat nursing animals. Do not apply to Pigs, Sheep and Goats less than 3 months old. Do not apply to calves less than 5 months old. Do not treat animals in cold, stormy weather. Do not treat overheated or sick animals.

Do not apply to feed or forage to be fed to or grazed by livestock or poultry. Do not contaminate feed or food crops. Do not use on poultry or in poultry houses. **HORNFLIES** on Beef Cattle - Mix 1 tbsp. per 2½ gallons water (8 ounces per 40 gallons water). Use a power sprayer to thoroughly treat animals. Treat when flies appear and repeat as needed for control. **LICE & TICKS** on Beef Cattle, Horses, Sheep & Goats. Mix 1 tbsp. per 2½ gallons water (8 ounces per 40 gallons water). Use a power sprayer to thoroughly wet animals hide. Repeat as needed for control.

SARCOPTIC MANGE MITE, LICE, TICKS on Hogs-Mix 2 tbsp. per 2½ gallons water (8 ounces in 20 gallons water). Use a power sprayer to thoroughly wet hide of animals. Do not apply to young animals. Repeat as needed.

SARCOPTIC MANGE on Beef Cattle and **PSOROPTIC MANGE** (Sheep Scabies) on Sheep and Goats-Mix 1 tbsp. per 2½ gallons water (8 ounces in 40 gallons water). Use a power sprayer to thoroughly wet animals. Use 2 or more treatments at 7 to 10 day intervals as needed for control. Observe good sanitation practices and spray pens and shelters to prevent reinfestation. Treat infested animals before adding to "herd."

PREMISE SPRAY AND TREATMENTS

Lindane must not be applied to currently occupied areas (ie. living or working areas).

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Do not apply in Dairy Barns, Poultry Houses or Milk Rooms. For FLIES, ROACHES, SPIDERS, ANTS AND MOSQUITOES in Livestock Pens and building, spray with a .3% solution by mixing 4 tbsp. per 1 gallon of water (8 ounces per 4 gallons water). Do not use in the home. Apply 1 gallon of spray mixture to cover 500 sq. ft. of surface. Spray to point of run-off. For crawling insects treat thoroughly cracks, crevices, baseboards and other hiding places. Remove animals before spraying. Do not contaminate milk or milking equipment, feed or drinking water. Repeat as needed for control. To make a "PAINT" mix 8 ounces per 1 gallon of water. Apply with a brush as a spot treatment to cracks and crevices and other hiding places. Do not use on painted surfaces since it will blister the paint. Do not use in the home. Remove or do not treat or contaminate milk, milking equipment, feed or drinking water.

For TICKS and CHIGGERS on Lawns, Recreation areas, Camp Grounds, Golf Courses, and Play Grounds mix 40 ounces in 50 gallons water and apply at the rate of 50 gallons of the mixture per acre (equals 1/2 lb. actual Lindane per acre). For small areas apply 1 gallon of the spray mixture per 1,000 sq. ft. A small pressure sprayer or power sprayer should be used to insure thorough vegetation coverage.

Copy for Side Panel (Continued)

STORAGE AND DISPOSAL

(Note: Heading must be 12 Pt. minimum type size)

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

Storage-Store in a cool, dry place.

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 at the nearest EPA Regional Office for guidance.

Container Disposal-Triple rinse (or equivalent). Then offer for recycling or reconditioning, or purchase and dispose of in a sanitary landfill, or by other approved state and local procedures.

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NOTICE: USS Agri-Chemicals can accept no responsibility for injury to persons or animals or for loss or damage to turf, soil or other property resulting from failure to follow directions for use or to observe cautions printed on this package.

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 USS Agri-Chemicals
 Division of United States Steel
 1100 Johnson Ferry Road, N.E., Atlanta, GA 30342
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USS
 UPC Code
 25704-50079

Below for Internal Use Only

	APPROVAL - MARKETING	DATE	REGULATORY SRVS.	DATE
BY	<i>Allen J. Foster</i>	<u>4/21/86</u>	<i>C. D. Henderson</i>	<u>4-21-86</u>