

PR 13 19713-308 *File*



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

APR 31 1994

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Barbara Brown
DREXEL CHEMICAL CO.
P. O. Box 93060
Greensboro, NC 27419

Subject: Label Amendment Submission of 09/13/93 in Response to PR Notice 93-7
EPA Reg. No. 19713-308
LINDANE 20%

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is accepted subject to the comments reflected on the enclosed sheet. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

WHAT THIS ACCEPTANCE MEANS:

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the Worker Protection Standard (WPS) labeling requirements of 40 CFR part 156, subpart K, described in PR Notices 93-7 and 93-11. Any other labeling changes submitted in connection with this amendment application but not directly related to compliance with the WPS have not been reviewed or accepted by the Agency. If you wish to make such changes, you must submit a separate amendment application proposing them. If your product is currently suspended, the acceptance of this labeling amendment does not affect the suspension in any way.

WHAT YOU NEED TO DO NEXT:

By the next label printing make all the specified changes to your labeling. Send to EPA one (1) copy of the final printed labeling:

- BEFORE selling or distributing any product bearing the final printed labeling
- AND
- WITHIN one year from date of this acceptance.



Recycled/Recyclable
Printed with Soy/Canola Ink on paper that
contains at least 50% recycled fiber

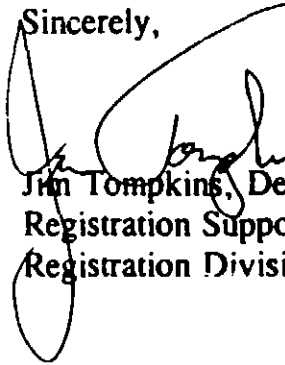
Submit the final printed labeling via the U.S. Postal Service to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs (7505C)
U.S. Environmental Protection Agency
401 M Street, SW
Washington, D.C. 20460-0001

Hand or courier deliveries of final printed labeling may be made to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs
Room 266A, Crystal Mall 2
1921 Jefferson Davis Highway
Arlington, VA 22202

Sincerely,



Jim Tompkins, Deputy Chief
Registration Support Branch
Registration Division (7505W)

Attachment

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division

Barbara Brown
DREXEL CHEMICAL CO
BOX 9306
MEMPHIS TN 38109

Comment for: EPA Reg Nr.19713-308
SOUTHLAND PEARSON BORER SPRAY AND STOCK DIP

The following specific comments pertain to your WPS labeling submission concerning the product cited above:

You must retain from your original label any statements about entry restrictions that apply to the non-agricultural uses on your product. Create a Non-Agricultural Use Requirements box in the Directions For Use section of your labeling and add the statements: "The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses." Then add to the box the statements that are in brackets [] on your original label. Please refer to the instructions for creating a Non-Agricultural Use Requirements box starting on page 45 of Supplement Three to PR Notice 93-7 (Main Labeling Guidance).

Delete the crossed-out statements on your proposed label. They are redundant statements or phrases.

Correct the typographical errors circled on your proposed label.

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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, 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 direct supervision and only for those uses covered by the Certified Applicator's certification.

**DREXEL
LINDANE 20%**

**KILLS Pine Bark and Turpentine Beetles, Flat Headed Borers,
Peach Tree Borers, Leaf Miners.**

**Stock Dip for Beef Cattle, Swine, Sheep and Goats
FOR KENNEL, COMMERCIAL, FARM AND SPORT DOG USES ONLY.**

**AN INDIVIDUAL APPLICATORS MUST NOT APPLY THIS PRODUCT MORE THAN
TWELVE TIMES PER YEAR.**

ACTIVE INGREDIENTS:

Lindane (Gamma Isomer of Benzene Hexachloride)*:.....20%

INERT INGREDIENTS**:.....80%

TOTAL:.....100%

*1.65 lbs. Lindane per gallon.
**Contains Xylene Range Aromatic Solvent - 62%

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

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 area with soap and water. *delete*
IF IN EYES: Flush eyes with plenty of water. Get medical attention if irritation persists.
NOTE TO PHYSICIAN: This product contains a light hydrocarbon solvent and an aspiration hazard may exist. Gastric lavage may be indicated if material was taken internally.

EPA Reg. No.: 19713-308
EPA Est. No.:

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ACCEPTED
with COMMENTS
in EPA Letter Dated
MAR 31 1988

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
19713-308

PRECAUTIONARY STATEMENTS**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

CAUTION: Harmful if swallowed, inhaled or absorbed through skin. Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Avoid breathing spray mist. May be absorbed through skin. ~~In case of contact, wash immediately with soap and water. Wash thoroughly after handling and before eating, drinking, or smoking.~~ Avoid contamination of feed and foodstuffs. Kitchen utensils such as teaspoons and tablespoons must not be used for food purposes after use in measuring pesticides. Do not use on humans. Do not use on nursing pups or on bitches nursing pups. Do not use or store near heat or open flame.

PERSONAL PROTECTIVE EQUIPMENT

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category G on an EPA chemical resistance category selection chart.

WPS USES: Applicators and other handlers who handle this pesticide for any uses covered by the Worker Protection Standard (40 CFR Part 170) - in general, agricultural-plant uses are covered -- must wear:

Coveralls over short sleeved shirt and short pants
 Chemical-resistant gloves, such as Barrier Laminate or Viton
 Chemical-resistant footwear plus socks
 Protective eyewear
 Chemical-resistant headgear for overhead exposure
 Chemical-resistant apron when cleaning equipment, mixing, or loading

NON-WPS USES: Applicators and other handlers who handle this pesticide for any use NOT covered by the Worker Protection Standard (40 CFR Part 170)--in general, only agricultural-plant uses are covered by the WPS--must wear:

~~Elbow-length waterproof gloves~~

~~Waterproof apron~~

~~Unlined waterproof boots~~

For enclosed areas such as crawl spaces, a respirator with either an organic vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G)

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

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USER SAFETY RECOMMENDATIONS**Users should:**

Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish, birds, and other wildlife. For terrestrial uses, do not apply directly to water or to areas where surface water is present, or to intertidal areas below the mean high water mark. 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.

This pesticide is highly toxic to bees exposed to direct application. Application 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, pour, spill 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.

Note: Aerial application of lindane is prohibited.

PROTECTIVE-CLOTHING-REQUIREMENTS

Applicators-must-wear-water-resistant-hat,-lightweight-protective-suit-or-coveralls,-unlined-waterproof-gloves-(natural-rubber,-neoprene,-or-polyethylene)-and-unlined-lightweight-boots.

Mixer/loaders-must-wear-goggles-or-a-face-shield,-waterproof-apron,-and-unlined-waterproof-gloves.-Special-precautions-or-protective-clothing-requirements-specific-to-certain-uses-are-given-at-the-end-of-the-directions-for-those-uses.

RE-ENTRY

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.-Do-not-enter-treated-areas-without-protective-clothing-within-24-hours.

Protective-clothing-for-re-entry-means,-at-least,-a-hat-or-other-suitable-head-covering,-a-long-sleeved-shirt-and-long-legged-trousers-or-a-coverall-type-garment-(all-of-closely-woven-fabric-covering-the-body-including-the-arms-and-legs)-,-socks,-and-shoes.

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.-Oral-warnings-must-inform-workers-of-areas-or-fields-that-may-not-be-entered-without-specific-protective-clothing-until-sprays-have-dried,-and-appropriate-actions-to-take-in-case-of-accidental-exposure,-as-described-under-Precautionary-Statements-on-this-label.-When-oral-warnings

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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. **CAUTION--Area treated with LINDBANE on (date of application)--Do not enter without appropriate protective clothing 24 hours after application--In case of accidental exposure, flush eyes with plenty of water--Call physician if irritation persists--Remove and wash contaminated clothing before reuse.**

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulations.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 24 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

Coveralls

Chemical-resistant gloves, such as Barrier Laminate or Viton

Chemical-resistant footwear plus socks

Protective eyewear

Chemical-resistant headgear for overhead exposure

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses. *Waterproof*

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ORNAMENTALS

APHIDS, THRIPS, LEAFMINERS, CUCUMBER BEETLES: On Azaleas, Boxwood, Chrysanthemum, Larkspur, Rose and other flowers, both ornamental shrubs and trees, use one pint per 100 gallons, or 1 teaspoonful to 1 gallon of water.

LACEBUG: On Azaleas, Pyracantha, and Rhododendron, use 1-1/2 pints per 100 gallons, or 1-1/2 teaspoonsful to 1 gallon of water. Apply in spring when immature insects first appear, and repeat as necessary.

PINE BARK BEETLES, TURPENTINE BEETLES: Use 1 pint in 5 gallons of water. Wet trunks thoroughly to runoff to height of 6 feet. Apply at first sign of attack, and repeat in 3 to 6 months if necessary.

FLAT-HEADED BORERS, ROUND-HEADED BORERS, PEACH TREE BORER: On Apples, Cherries, Peaches, use 3 pints per 100 gallons, or 1 tablespoonful to 1 gallon of water. Apply to trunk, crotch to ground. Soak bark to runoff and around base of tree. For best results the first trunk spray should be made between July 10 and 15, and two subsequent applications at 3 to 4 week intervals. DO NOT APPLY TO FRUIT OR FOLIAGE.

DOGWOOD BORER, RHODODENDRON BORER, LILAC BORER: On Dogwood, Rhododendron, Lilac, use 3 pints per 100 gallons or 1 tablespoonful to 1 gallon of water. Make 2 to 3 applications 7 to 10 days apart in May and early June. Apply to trunk and to lower limbs, particularly injured areas and old borer wounds.

LAWNS

TICKS, CHIGGERS, FLEAS, LEAFHOPPERS in lawns: Use 1 pint to 10,000 square feet, or 3 tablespoonsful to 1,000 square feet in sufficient water for good coverage. Repeat application if necessary. **CAUTION:** Keep children and pets off treated areas until the insecticide has been washed into the soil and treated areas have dried completely. *Place in NON-AG USE BOX.*
Do not apply to food crops.

LIVESTOCK

CAUTION: Do not use on dairy animals. Do not use on emaciated, sick or lactating animals. Do not spray animals within 30 days or dip animals within 60 days of slaughter. When spraying use a sprayer capable of maintaining a pressure of 200 to 400 pounds per square inch. Use 1 to 2 gallons of spray per head of cattle and proportionally less for smaller animals. Thoroughly stir dipping vats before using. If any separation of the emulsion occurs, do not use the dip. Make sure animals are well watered prior to being dipped to prevent them from drinking the treated dip. Do not treat animals under 3 months of age. If young animals are to be dipped individual dipping is recommended to avoid the possible swallowing of the dipping solution by the animals. Do not treat sows within 2 weeks of farrowing nor for at least 3 weeks thereafter. Avoid treating animals in cold stormy weather. Avoid treating overheated or sick animals.

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BEEF CATTLE: Lice and Ticks: Use 1-1/4 pints per 100 gallons of water. Thoroughly spray entire animal. Repeat treatment in 2 to 3 weeks if necessary. **SARCOPTIC MANGE AND SCAB MITES:** Spray using 2 pints per 100 gallons of water. Make only 2 applications, 7 days apart. Do not apply to calves under 6 months of age at this dosage.

SWINE: Lice and Sarcoptic Mange Mites: Use 2 pints per 100 gallons of water and apply as a spray or dip. For mange mites, repeat treatment in 2 weeks if necessary.

SHEEP AND GOATS: Ticks, Keds and Lice: Use 2 pints per 100 gallons of water as a spray, or use 1 pint per 100 gallons in a dip. Repeat treatment in 2 to 3 weeks if necessary.

DOG

FLEAS, LICE, TICKS, AND SARCOPTIC MANGE: Use 1 teaspoonful per 1 gallon of water and apply as a spray or wash by roughing the coat to ensure penetration of the solution down to the skin. Pay particular attention to ticks, or use 1-1/3 teaspoonful per 1 gallon of water as a dip. Make 2 applications, 7 days apart. Repeat treatment as needed. **DO NOT** use on puppies under 3 months of age. Do not use on nursing bitches. Do not apply this application more than at weekly intervals.

NOTE: Applicators-must-wear-the-following-protective-clothing during-the-treatment-process:-elbow-length,-waterproof-gloves,-a waterproof-apron,-and-unlined-waterproof-boots. Improper dilution of this product can cause serious injury to your dog. An individual applicator must not use this product more than twelve times per year. Each treatment of three dogs or fewer should be considered one use.

RESIDUAL SPRAYS

STABLE FLY, MOSQUITOES, ROACHES, ANTS: Inside and outside of barns, hog pens, stables and other livestock buildings, use 1-1/4 to 2 pints in 10 gallons of water and apply at the rate of 1 gallon to 1,000 square feet of surface. Thoroughly cover resting surfaces for flies and mosquitoes. Apply to cracks, crevices, and other hiding places for control of roaches and ants. Repeat applications as necessary. Do not apply in milkrooms or poultry houses. Do not contaminate animal food or water. Do not use in the home. Do not use on grazing areas.

TICKS AND CHIGGERS: Use 2 quarts per 100 gallons of water and spray weeds and underbrush harboring pests. Repeat applications as necessary. **DO NOT** use on food crops or grazing areas.

CAUTION: Do not use in poultry houses, dairy barns, or milkrooms. Do not contaminate milk, milking equipment, feed or drinking water.

NOTE: For-residual-spray-uses-the-following-Protective-Clothing is-Required:-Applicators-must-wear-water-resistant-hat,-lightweight-protective-suit-or-coveralls,-unlined-waterproof gloves-(natural-rubber,-neoprene-or-polyethylene)-and-unlined lightweight-boots.-MSHA/NIOSH-approved-respirators-are-required for-applications-in-enclosed-areas-such-as-crawl-spaces.-Mixer/loaders-must-wear-goggles-or-a-face-shield,-waterproof apron,-and-unlined-waterproof-gloves.

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PECAN INSECT CONTROL

PECANS: For control of Phylloxera (Galls) and the Hickory Shoot Curculio-Mix 2 teaspoons per one 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 dilute 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 allow animals to graze treated areas. Do not apply within 210 days of harvest.

NOTE: This control is not effective when typical gall symptoms appear.

STORAGE AND DISPOSAL

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

STORAGE INSTRUCTIONS

Storage should be under lock and key and secure from access by unauthorized persons and children. Storage should be in a cool, dry area away from any heat or ignition source. Do not stack over 2 pallets high. Do not move containers from one area to another unless they are securely sealed. Keep containers tightly sealed when not in use. Keep away from any puncture source. Be careful not to break glass containers. Avoid storage near water supplies, food, feed and fertilizer to avoid contamination. Store in original containers only. If the contents are leaking or material is spilled, follow these steps while wearing protective clothing:

1. Contain spill, absorb with material such as sawdust, clay granules or dirt.
2. Collect and place in suitable containers for disposal.
3. Wash area with water and soap to remove remaining pesticide.
4. Follow washing with clean water rinse.
5. Do not allow runoff to enter sewer or contaminate water supplies.
6. Keep persons and animals away from spill until it has been decontaminated.
7. Leaking containers should be placed in a plastic tub and the contents transferred as soon as possible to an empty original container.
8. Dispose of waste as indicated below:

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 dispose of in a sanitary landfill or by other approved state and local procedures.

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Disposal of Dips

Used dip solutions must be disposed of in accordance with the Resource Conservation and Recovery Act (RCRA). If the applicator generates more than 1,000 kg of used dip solution per month or more than 1,000 kg used dip solution in combination with other hazardous waste, 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.

WARRANTY-CONDITION OF SALE

OUR RECOMMENDATIONS FOR USE of this product are based upon tests believed reliable. Follow directions carefully. Timing and method of application, weather and crop conditions, mixtures with other chemicals not specifically recommended, and other influencing factors in the use of this product are beyond the control of the Seller. Buyer assumes all risks of use, storage, and handling of this material not in strict accordance with directions given herewith.

In no case shall Drexel or the Seller be liable for consequential, special or indirect damages resulting from the use or handling of this product when such use and/or handling is not in strict accordance with directions given herewith. The foregoing is a condition of sale By Drexel Chemical Company and is accepted as such by the Buyer.

Manufactured By:

Drexel Chemical Company

P.O. BOX 9306, MEMPHIS, TN 38109-0306

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