

OCT 23

Mr. Robert F. Bischoff
Dow Chemical U.S.A.
P.O. Box 1706
Midland, MI 486450

Dear Mr. Bischoff:

Subject: Addition of Pests on Apples, Walnuts, and Pecans
Lorsban 50W
EPA Registration No. 464-562
Your application of Dec. 23, 1986

The amendment referred to above, submitted in connection with registration under FIFRA sec. 3(c)(7)(A), is acceptable, provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data.
2. Submit five (5) copies of your final printed labeling before you release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

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

Sincerely yours,

Dennis H. Edwards, Jr.
Product Manager (12)
Insecticide-Rodenticide Branch
Registration Division (TS-767)

Specimen Label

ACCEPTED
with COMMENTS
in EPA Letter Dated:

OCT 22 1987

Lorsban 50W

Wettable Powder Insecticide

For Control of Various Insects on Certain Fruit and Nut Crops

Active Ingredient(s):

Chlorpyrifos [O,O-diethyl O-(3,5,6-trichloro-2-pyridinyl) phosphorothioate]	50%
Inert Ingredients	50%

E.P.A. Registration No. 464-552

E.P.A. Est. 477-TX-1

KEEP OUT OF REACH OF CHILDREN

WARNING

AVISO:

PRECAUCION AL USUARIO:

Si usted no lee ingles, no use este producto hasta que la etiqueta le haya sido explicada ampliamente

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

MAY BE FATAL IF SWALLOWED • HARMFUL IF ABSORBED THROUGH SKIN OR INHALED • CAUSES EYE IRRITATION

Avoid Contact With Eyes, Skin, Or Clothing

- Avoid Breathing Dust or Spray Mist
- Wash Thoroughly With Soap And Water After Handling And Before Eating Or Smoking
- When Loading the Spray Tank or Handling the Powder, Wear a Pesticide Respirator Jointly Approved by the Mining Enforcement and Safety Administration (formerly the U.S. Bureau of Mines) and by the National Institute for Occupational Safety and Health Under the Provisions of 30 CFR Part II
- Wear Protective Clothing Such As Long Pants, Long Sleeve Shirt, Gloves, Hat, And Boots When Loading The Spray Tank Or Handling The Powder And During Application Of The Spray Mixture
- Work To Windward To Stay Out Of Spray Drift Or Mist
- Remove Contaminated Clothing and Wash Before Reuse
- 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
- Keep Away From Food, Feedstuffs And Water Supplies

STATEMENT OF PRACTICAL TREATMENT: IF

Swallowed: Call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by

attention if irritation persists. **If In Eyes:** Flush with plenty of water for 5 minutes. Get medical attention if irritation persists. **If Inhaled:** Remove to fresh air if effects occur. Get medical attention.

NOTE TO PHYSICIANS: Chlorpyrifos is a cholinesterase inhibitor. Treat symptomatically. If exposed, plasma and red blood cell cholinesterase tests may indicate significance of exposure (baseline data are useful). Atropine, only by injection, is the preferable antidote. Oximes, such as 2-PAM protopam, may be therapeutic if used early, however, use only in conjunction with atropine. In case of severe acute poisoning, use antidote immediately after establishing an open airway and respiration.

Environmental Hazards

This pesticide is toxic to birds and wildlife, and extremely toxic to fish and aquatic organisms. Do not apply directly to water. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent aquatic sites. Cover or incorporate spills. Do not contaminate water by cleaning of equipment or disposal of waste. This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Avoid use when bees are actively foraging. Protective information may be obtained from your Cooperative Agricultural Extension Service.

NOTICE

Read and understand the entire label before using. Use only according to label directions.

Before buying or using this product, read "WARRANTY LIMITATIONS AND DISCLAIMER" elsewhere on this label. If terms are not acceptable, return unopened package at once to seller for full refund of purchase price paid. Otherwise, use by the buyer or any other user constitutes acceptance of the terms under WARRANTY LIMITATIONS AND DISCLAIMER.

IN CASE OF AN EMERGENCY

endangering life or property involving this product, call collect 517-636-4400

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or if bees are likely to come in contact with or re-entred

DIRECTIONS FOR USE

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

General Information

LORSBAN 50W insecticide is a wettable powder formulation designed for use as a cover spray to control various pests. The pests controlled are listed in the accompanying table. LORSBAN 50W is compatible with insecticides, miticides, and fungicides commonly recommended in orchard spray schedules, except for alkaline materials such as Bordeaux mixture and lime.

Test compatibility of the intended tank mixture before adding LORSBAN 50W to the spray or mix tank. Add proportionate amounts of each ingredient to a pint or quart jar, cap, shake, and let set 15 minutes. Formation of precipitates that do not readily redisperse indicates an incompatible mixture that should not be used.

Mixing Instructions

LORSBAN 50W mixes readily with water to form a suspension. Mix the required amount of LORSBAN 50W with a small quantity of water and add this premix while filling the spray tank. Alternatively, fill the tank with the required amount of water and then add the premix. Maintain sufficient agitation during both mixing and application to ensure uniformity of the spray mixture. LORSBAN 50W contains a wetting agent. Do not use additional wetting agents, spreaders or stickers.

Use and Dosage Recommendations

Use LORSBAN 50W at the dosages indicated by application as a foliar spray to control pests listed in the following table. Mix the required dosage in sufficient water to ensure thorough and complete coverage of the foliage and crop and apply as a concentrate or dilute spray using conventional, power operated spray equipment. For dilute sprays applied to tree fruits and nuts, mix the required dosage in sufficient water to allow for spray to run off. For concentrate sprays, apply an equivalent amount of LORSBAN 50W per acre. Treat when pests appear or in accordance with local conditions. LORSBAN 50W will perform best in an integrated or waist pest control program that includes winter sanitation (removal of mummy nuts) and regular monitoring of target pests. To control apple aphid infest on apples, spray every 10 to 14 days on a preventative schedule. To suppress pecan leaf scotch mite on pecans, use in a preventative program. For ant control on pecans, do not apply where weed growth or other obstructions would impede uniform coverage of the orchard floor. Consult your State Agricultural Experiment Station, Certified Pest Control Advisor or Extension Service specialist for specific use information in your area.

LORSBAN 50W may also be used on almonds and walnuts as a dormant delayed dormant treatment applied at the dosages indicated in a dilute or concentrate spray. Proper equipment must be used to obtain complete coverage of the entire bark area. If scale infestations are severe, dilute sprays should be used to ensure complete coverage. Use oil as recommended by your State Agricultural Experiment Station, State Extension Service Specialist, or Certified Pest Control Advisor. Do not use oil with LORSBAN 50W on walnuts. Because dry or cool conditions may cause LORSBAN 50W plus oil sprays to injure trees resulting in bud damage or drop, do not apply until winter rains or irrigation has replenished soil moisture such that bark and twigs are not desiccated.

DOSAGE AND USE RECOMMENDATIONS FOR LORSBAN 50W Wettable Powder Insecticide

Crop	Insects Controlled	Dosage LORSBAN 50W	Restrictions
Apples	Apple aphid, Apple maggot, Codling moth, European apple sawfly, Eyespot, Red bud moth, European corn borer, Fruit tree leafroller, Green fruit worm, Lesser appleworm, Obliquebanded leafroller, Orange tortrix, Pandemis leafroller, Oriental fruit moth, Plum curculionid, Red-banded leafroller, Rose apple aphid, San Jose scale, Tortured plant bug, Tuffed apple bud moth, Variegated leafroller, Woolly apple aphid, Dogwood borer (trunk spray)	3 lb per acre	Make no more than two applications. Do not treat more than 21 days before or after treatment. Do not allow to graze in orchards. Do not do winter pruning until after treatment.
Peaches	Naval orangeworm, Peach twig borer, Pear leaf scale	4 lb per acre	Make only dormant dormant treatment spray application and no more than three foliar applications per season. Make dormant spray treatment and no more than two foliar applications per season. Do not spray more than 14 days before harvest.
	Walnuts	Codling moth, Walnut scale, Walnut husk fly	4 lb per acre
Pears	European pear moth, Pear leafroller, Pear sawfly, Obliquebanded leafroller, Greenworm leafroller, Winter moth	4 lb per acre	Do not spray more than 14 days before harvest. Do not allow to graze in orchards.
Pecans	Black pecan aphid, Hickory shuck worm, Pecan nut casebearer, Pecan weevil, Phylloxera spp., Fire ants and other ant species, Orchard floor	2 lb per 100 gallons	Make no more than two applications per season. Do not spray within 28 days of harvest. Do not allow to graze in treated orchards.

REENTRY STATEMENT

Do not allow reentry into treated areas within 24 hours. Protective clothing is worn. Protective clothing consists of a hat or other suitable head covering, a long shirt and long legged trousers or a covering type garment of closely woven fabric covering the body including arms and legs, shoes, and socks. Because certain crops require more restrictive reentry intervals for various reasons, consult the label for specific information.

For best pecan Phylloxera control, use two applications to 10 days apart starting at bud swell and ending by early leaf expansion.

Mow or beat down orchard blooming weed cover crops before applying spray to tree fruit crops to reduce hazard to bees. This step is especially important in relation to early spring cover sprays when morning conditions may be wet from dew.

treated with this product, consult your State Department of Agriculture for further information

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. These oral warnings shall inform workers of areas or fields that may not be entered without protective clothing and actions to take in case of accidental exposure as shown by the Statement of Practical Treatment section on this label. When oral warnings are given, warnings shall be given in a language customarily understood by workers. Written warnings must include the following information: **WARNING:** Area treated with LORSBAN 50W wettable powder insecticide (on insert date of application). Do not enter without protective clothing for 24 hours. In case of accidental exposure, insert actions to take as shown by the Statement of Practical Treatment section on this label)

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited.

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Container Disposal: Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

WARRANTY LIMITATIONS AND DISCLAIMER

The Dow Chemical Company warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions therein under normal condi-

tions of use. **THIS IS THE ONLY WARRANTY MADE ON THIS PRODUCT. NO OTHER EXPRESS AND NO IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE IS MADE OUTSIDE OF THIS LABEL.** Therefore, neither this warranty nor any other warranty of merchantability or fitness for a particular purpose, express or implied, extends to the use of this product contrary to label instructions (including conditions noted on the label, such as unfavorable temperatures, soil conditions, etc.), under abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes, etc.) or under conditions not reasonably foreseeable to or beyond the control of seller.

When buyer or user suffers losses or damages resulting from the use or handling of this product (including claims based on contract, negligence, strict liability, or other legal theories), buyer or user must promptly notify in writing The Dow Chemical Company of any claims to be eligible to receive either remedy given below. The **EXCLUSIVE REMEDY OF THE BUYER OR USER** and the **LIMIT OF LIABILITY** of The Dow Chemical Company or any other seller will be one of the following, at the election of The Dow Chemical Company:

- (1) **Refund of purchase price** paid by buyer or user for product bought, or
- (2) **Replacement** of amount of product used.

The seller **will not be liable for consequential or incidental damages or losses.**

The terms of this Warranty Limitations And Disclaimer cannot be varied by any written or verbal statements or agreements. Any employee or sales agent of the seller is not authorized to vary or exceed the terms of this Warranty Limitations And Disclaimer in any manner.

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Lack pecan aphid	2 lb
Hickory shuckworm	per 100
Pecan leaf scorch	gallon
Mite (suppression)	
Pecan nut casebearer	1 lb
Phylloxera spp.	per 100
Fall webworm	gallon
Spittlebug	
Five ants and other ant species (orchard floor)	2 lb per acre



THE DOW CHEMICAL COMPANY
Midland, Michigan 48674 U.S.A.

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SPECIMEN LABEL 86-1777 DATE CODE E886
REPLACES 86-1777 DATE CODE D1185
DISCARD PREVIOUS SPECIMEN LABELS

REVISIONS INCLUDE.

- 1) REVISED PRECAUTIONARY STATEMENTS
 - 2) ADDITIONAL PESTS
 - 3) ADD DORMANT/DELAYED DORMANT
TREATMENT FOR ALMONDS AND
WALNUTS
- 1/1/77