

US EPA ARCHIVE DOCUMENT

Shaughnessy No.: 059101

Date out of EAB: 15 MAY 1984

To: J. Ellenberger
Product Manager 12
Registration Division TS-767

From: Samuel M. Creeger, Chief *SMC*
Environmental Chemistry Review Section 1
Exposure Assessment Branch
Hazard Evaluation Division TS-769c

COPY

Attached, please find the EAB review of:

Reg./File No.: 464-552

Chemical: Chlorpyrifos

Type Product: Insecticide

Product Name: LORSBAN 50W

Company Name: Dow

Submission Purpose: add stone fruit to label

ZBB Code: 3(c)(7)

Action Code: 335

Date In: 3/19/84

EAB No.: 4241

Date Completed: 5/15/84

TAIS (Level II) Days

Deferrals To:

64 0.25

Ecological Effects Branch

Residue Chemistry Branch

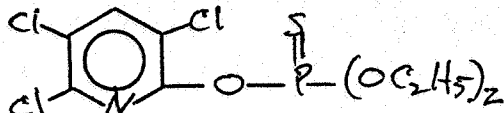
Toxicology Branch

1.0 INTRODUCTION

Chemical Name and Type of Pesticide: chlorpyrifos, O,O-diethyl
O-(3,5,6-trichloro-2-pyridyl)phosphorothioate, insecticide.

Trade Name: LORSBAN 50W Wettable Powder Insecticide

Chemical Structure:



Dow Chemical is requesting the addition of stone fruit to its LORSBAN 50W label.

2.0 DIRECTIONS FOR USE

See attached label.

3.0 DISCUSSION OF DATA

No new data submitted.

4.0 RECOMENDATION

4.1 EAB notes that the soil photolysis data gap still exists. A recent review (2 Feb. 1984) found the submitted studies unacceptable. This data gap must be satisfied in order to have the EF data support the proposed use.

Herbert L. Manning
Herbert L. Manning, Ph.D.
Review Section #1
EAB/HED

SPECIMEN LABEL
REDUCED TO 69%



Lorsban^{*} 50W

wettable powder insecticide

For Control of Major Pests on Apples

ACTIVE INGREDIENT

Chlorpyrifos (O,O-diethyl O-[3,5,6-trichloro-2-pyridyl] phosphorothioate)

50%

INERT INGREDIENTS

50%

EPA Registration No. 464-552

EPA Est. No. 5905-AR-1

STORAGE AND DISPOSAL

Prohibitions: Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container.

Pesticide Disposal: Pesticide or suspension that cannot be used should be disposed of in a landfill approved for pesticides or buried in a safe place away from water supplies.

Container Disposal: Dispose of in an incinerator or landfill approved for pesticide containers or bury in a safe place.

General: Consult federal, state or local disposal authorities for approved alternative procedures such as limited open burning.

NOTICE: Seller warrants that the product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use, but 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, or under abnormal conditions, or under conditions not reasonably foreseeable to seller, and buyer assumes the risk of any such use.

U.S. Patent No. 3,244,588

13200-002-1

45386-A1083

THE DOW CHEMICAL COMPANY

Midland, MI 48640 U.S.A.

*Trademark of THE DOW CHEMICAL COMPANY

KEEP OUT OF REACH OF CHILDREN

WARNING

MAY BE FATAL IF SWALLOWED • CAUSES EYE IRRITATION

Read Complete Precautions on Side Panel

In case of an emergency endangering life or property involving this product, call collect
517-636-4400

AGRICULTURAL CHEMICAL

Do Not Ship or Store with Food, Feeds, Drugs or Clothing

1.36 kg / 3 lb

86-1777 PRINTED IN U.S.A. IN OCTOBER, 1983.

REPLACES SPECIMEN LABEL 86-1777 PRINTED IN JANUARY, 1983.

DISCARD PREVIOUS SPECIMEN LABELS.

REVISIONS INCLUDE: (1) REMOVED SPOTTED TENTIFORM LEAFMINER AND WHITE APPLE LEAFHOPPER FROM THE INSECTS CONTROLLED. (2) ADDED A RESTRICTION FOR CALIFORNIA.


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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 (25 to 400 gallons per acre) using conventional, power-operated ground spray equipment. Treat when pests appear or in accordance with local conditions. Consult your State Agricultural Experiment Station or Extension Service specialist for specific use information in your area.

DOSAGE AND USE RECOMMENDATIONS
for LORSBAN 50W Wettable Powder Insecticide

Crop	Insects Controlled	Dosage LORSBAN 50W per acre	Restrictions
Stone fruits Apricots Cherries Nectarines Peaches Plums, Prunes	Aphids Black cherry Mealy plum Rusty plum Borers American plum Lesser peachtree Peach twig Peachtree Climbing cutworms Green fruitworm Leafrollers Fruittree Obliquebanded Pandemis Redbanded Variegated Lygus Moths Codling Eyespotted bud Oriental fruit Orange tortrix Plum curculio Scale Cottony peach European fruit Lecanium Forbes San Jose Terrapin Walnut White peach Stink bug Tussock moths	3 lb	Make no more than 3 applications per season. Do not apply within 14 days of harvest. Do not allow livestock to graze in treated orchards. In California do not do work involving contact with trees within 2 days after treatment. 

PRECAUCION AL USUARIO: Si usted no lee inglés, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.

TRANSLATION: (TO THE USER: If you cannot read English, do not use this product until the label has been fully explained to you.)

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, ~~injuious to apples~~. 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.

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 the pests listed in the following table. Make the application as a dilute or concentrate spray using conventional, power-operated ground spray equipment that will ensure thorough and complete coverage of the foliage and fruit. Treat when pests appear or in accordance with local conditions. Consult your State Agricultural Experiment Station or Extension Service specialist for specific use information in your area.

**DOSAGE AND USE RECOMMENDATIONS
for LORSBAN 50W wettable powder insecticide**

Crop	Insects Controlled	Dosage		Restrictions	
		Dilute Sprays			Concentrate Sprays
		LORSBAN 50W per 100 gallons water	Spray mixture per acre		LORSBAN 50W per acre
Apples	Apple aphid Apple maggot Codling moth European apple sawfly Eyespotted bud moth Fruitree leafroller Green fruitworm Lesser appleworm Obliquebanded leafroller Oriental fruit moth Plum curculio Redbanded leafroller Rosy apple aphid San Jose scale Tarnished plant bug Tufted apple budmoth Variegated leafroller Woolly apple aphid	8 to 16 oz	300 gallons	3 lb	Do not apply more than 8 complete applications per season at the maximum recommended dosage rate. Do not apply last treatment within 28 days before harvest or apply last two treatments closer than 21 days apart. Do not allow livestock to graze in treated orchards. In California do not do work involving contact with trees within 2 days after treatment

KEEP OUT OF REACH OF CHILDREN

WARNING

PRECAUTIONARY STATEMENTS

**Hazards to Humans and Domestic Animals
MAY BE FATAL IF SWALLOWED
CAUSES EYE IRRITATION**

Not Take Internally • Do Not Breathe Dust
Not Get in Eyes, on Skin, or on Clothing
Wash Thoroughly After Handling and Before
Eating or Smoking • Remove and Wash Con-
taminated Clothing Before Reuse • In Case of
Contact, Immediately Flush Eyes With Plenty of
Water and Get Prompt Medical Attention if Irri-
tation Develops or Persists • Wash Con-
taminated Skin With Soap and Plenty of Water.

NOTE TO PHYSICIAN: Chlorpyrifos is a
cholinesterase inhibitor. Treat symptomatically.
Atropine only by injection is an antidote.

Environmental Hazards

This product is highly toxic to bees exposed to direct
contact or residues on crops. Avoid use when bees
are actively foraging. Protective information may be
obtained from your Cooperative Agricultural Exten-
sion Service.

LORSBAN 50W insecticide is toxic to fish, birds and
other wildlife. Fish and crustaceans may be killed if
surface waters are contaminated with this product.
Do not apply to lakes, streams, ponds, tidal marshes and
estuaries. Do not apply where runoff is likely to oc-
cur. Do not apply when weather conditions favor
drift from treated areas. Do not contaminate water
cleaning equipment or disposal of wastes. Use
product only as specified on this label.

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