

LOT MM

ACCEPTED  
JAN 17 1978  
Under the Federal Insecticide, Fungicide, and Rodenticide Act  
this product has been registered  
EPA Reg. No. 464-448

**Environmental Hazards**

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

LORSBAN 4E insecticide is toxic to fish, birds and other wildlife. Fish and crustaceans may be killed if their waters are contaminated with this product. Keep out of lakes, streams, ponds, tidal marshes and estuaries. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from treated areas. Do not contaminate water by cleaning of equipment or disposal of wastes. Use this product only as specified on this label.

**Physical and Chemical Hazards**

**COMBUSTIBLE**

Do Not Use 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.

**READ AND FOLLOW COMPLETE DIRECTIONS FOR USE AND OTHER IMPORTANT INFORMATION GIVEN IN BOOKLET ATTACHED TO PRODUCT CONTAINER**

**STORAGE AND DISPOSAL**

**Storage:** Keep away from food, feedstuffs, and domestic water supplies. Handle concentrate in a ventilated area. Keep container closed.

**Disposal:** Do not reuse empty container for any purpose. Promptly crush or perforate and bury with wastes in a location away from water supplies. Follow official local pesticide container disposal regulations where applicable.

**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. 3,244,586

86-1417 PRINTED IN U.S.A. IN NOVEMBER, 1977.  
ORIGINAL PRINTING-DRUM LABEL



**LORSBAN\*4E**  
**INSECTICIDE**

*For Control of Certain Insects Infesting Cotton and Peaches*

**ACTIVE INGREDIENTS:**

Chlorpyrifos (O, O-diethyl O- (3,5,6-trichloro-2-pyridyl) phosphorothioate) ..... 40.7%  
Aromatic petroleum derivating solvent ..... 22.6%  
INERT INGREDIENTS: ..... 36.5%  
Contains 4 pounds of chlorpyrifos per gallon  
EPA Reg. No. 464-448 EPA Est. 464-MI-1

**AGRICULTURAL CHEMICAL**

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

**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.)

KEEP OUT OF REACH OF CHILDREN

**WARNING**

**PRECAUTIONARY STATEMENTS**  
**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**  
**MAY BE FATAL IF SWALLOWED • MAY BE ABSORBED THROUGH SKIN**  
**MAY BE INJURIOUS TO EYES AND SKIN**

**Do Not Take Internally • Do Not Get in Eyes, on Skin or on Clothing • Avoid Breathing Vapors and Spray Mist • Wash Thoroughly After Handling**  
In case of contact, immediately flush contaminated eyes with plenty of water and get prompt medical attention. Promptly wash contaminated skin with soap and plenty of water. Wash contaminated clothing before reuse.  
**NOTE TO PHYSICIAN:** Chlorpyrifos is a cholinesterase inhibitor. Treat symptomatically. Atropine is an antidote.

**SPECIMEN LABEL**  
REDUCED TO 85%

**INSECTICIDE,  
LIQUID  
N.O.S.**  
(Contains Xylene)



**208.2 L / 55 GAL**

**THE DOW CHEMICAL COMPANY**

AND SUBSIDIARIES  
MIDLAND, MICHIGAN 48640, USA Horgen, SWITZERLAND HONG KONG  
CORAL GABLES, FLORIDA 33134, USA SARNIA, ONTARIO, CANADA  
\*Trademark of THE DOW CHEMICAL COMPANY

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# LORSBAN 4E

INSECTICIDE

*For Control of Certain Insects Infesting  
Cotton and Peaches*

Complete Directions for Use, Use Precautions and Restrictions,  
Hazards and Other Important Information  
For the Proper Use, Handling, Storage and Disposal of this Product

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\*Trademark of THE DOW CHEMICAL COMPANY

EPA Reg. No. 464-448

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

**READ ENTIRE LABEL  
BEFORE USING THIS PRODUCT.**

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**HAZARDS****Human and Domestic Animal**

May be fatal if swallowed. May be absorbed through skin. May be injurious to eyes and skin.

Do not take internally. Do not get in eyes, on skin or on clothing. Avoid breathing vapors and spray mist. Wash thoroughly after handling.

In case of contact, immediately flush contaminated eyes with soap and plenty of water and get prompt medical attention. Promptly wash contaminated skin with soap and plenty of water. Wash contaminated clothing before reuse.

**Note to Physician:** Chlorpyrifos is a cholinesterase inhibitor. Treat symptomatically. Atropine is an antidote.

**Environmental**

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

LORSBAN 4E insecticide is toxic to fish, birds and other wildlife. Fish and crustaceans may be killed if their waters are contaminated with this product. Keep out of lakes, streams, ponds, tidal marshes and estuaries. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from treated areas.

Do not contaminate water by cleaning of equipment or disposal of wastes. Use this product only as specified on this label.

**Physical and Chemical**

LORSBAN 4E is combustible. Do not use or store near heat or open flame.

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**DIRECTIONS FOR USE**

**General Information**

LORSBAN 4E insecticide forms an emulsion when diluted with water and is suitable for use in all conventional hand- and power-operated ground spray equipment. Aerial spray equipment also may be used where specified.

**Mixing Instructions**

To prepare the spray, fill the spray tank with about 3/4 the required amount of water, add the recommended amount of LORSBAN 4E, and complete filling the tank with the balance of the water needed. Maintain sufficient agitation during both mixing and application to ensure uniformity of the spray mixture.

**Use and Dosage Recommendations**

**COTTON:** LORSBAN 4E is recommended for control of bollworms (*Heliothis spp*) and boll weevils on cotton grown in all states except Arizona and California. Use 2 pints of LORSBAN 4E per acre mixed in sufficient water to ensure thorough coverage of plants and apply using aerial or power-operated ground spray equipment. For aerial application, use at least 1 gallon of water per acre. Treat when field counts indicate damaging insect populations are developing or present. Retreat as necessary to maintain control.

For best results on bollworms, it is suggested that fields be scouted twice per week and treatments made when worms are 1/4 inch or less in length. The following table illustrates the size of worms in relation to age and stage of development (instar) as a guide to timing of treatments for best control. From the table it can be seen that a scouting schedule of only once per week will not be satisfactory since the worms may be too big to control effectively by the seventh or eighth day.

Timing for the best worm control

	Age (days)	Size	Instar
Get the worms at this stage	Hatch	1/16"	Hatch
	3	3/32"	I
	5	9/32"	II
	6	7/16"	III
	8	11/16"	IV



Proper application techniques help to ensure thorough spray coverage and correct dosage and are thus important in obtaining good control of pests. Consider these suggestions when applying LORSBAN 4E on cotton:

**Aerial Application:** Shorten boom length to reduce spray from entering the vortices at the wing tips. Generally, the swath width flown should not exceed the wing span by more than 2 to 6 feet. Swath width should be reduced when wind direction is the same as direction of spraying.

The proper nozzle arrangement and swath width to avoid skips and excessive vortices effect can be checked out by flying over a paper tape (adding machine paper) using water with or without methylene blue dye. (The dye gives a permanent record.)

Flying at a height of 5-10 feet above the target results in the best coverage.

Nozzle orientation of the boom is important. More break-up occurs when nozzles are pointed straight down versus the straight back position. Desired droplet size (100-200 microns) can be obtained by angling the nozzles somewhere in this range.

Marking of swath by flagging or permanent markers is essential.

**Ground Application:** Orient the boom and nozzles so that uniform coverage is obtained. The swath width should not be wider than the boom; drift spray is wasted spray so do not depend on it. Use flat spray or disc-core hollow cone nozzles with maximum spacing of 20 inches and a spray pressure of 40-60 psi with a droplet size of 100-200 microns.

**Restrictions:** Do not apply within 14 days before harvest. Do not allow livestock to graze in treated areas. Do not feed gin trash or treated forage to livestock.

**PEACHES:** Use LORSBAN 4E for the control of peach tree borers by application as a trunk spray before newly hatched borers enter the trees. Mix 3 quarts of LORSBAN 4E with 100 gallons of water and apply as a coarse, low-pressure spray to give uniform coverage of tree trunks. Thoroughly wet all bark areas from ground level to scaffold limbs. Do not allow spray to contact fruit. Consult your State Agricultural Experiment Station or Extension Service specialist for proper time to treat in your area.

**Restrictions:** Make only one application per season. Do not apply within 14 days before harvest. Do not allow meat or dairy animals to graze in treated orchards.

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**STORAGE AND DISPOSAL**

**Storage:** Keep away from food, feedstuffs, and domestic water supplies. Handle concentrate in a ventilated area. Keep container closed.

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**NOTES**