

# LORSBAN\*4E

# INSECTICIDE

For Control of Certain Insects Infesting Cotton, Field Corn, 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

C279

\* Trademark of THE DOW CHEMICAL COMPANY

EPA Reg. No. 464-448 EPA Est. No. 464-MI-1

# READ ENTIFE LABEL BEFORE USING THIS PRODUCT

PRECAUCION AL USUARIO: Si upted no lee ingles, no use este producto hasta que la etiqueta le haya sido explicadu ampliamente.

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

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

# **ACTIVE INGREDIENTS:**

| Chlorpyrifos [O,O-diethyl | O-(3,5,6 <sub>°</sub> |
|---------------------------|-----------------------|
| trichloro-2-pyridyl)      |                       |
| phosphorothioate]         | 40.7%                 |
| Aromatic petroleum deriv  | ative                 |
| solvent                   | 22.8%                 |
| INERT INGREDIENTS:        | 36.5%                 |
| Contains 4 pounds of chl  | orpyrifos per         |
| gallon                    |                       |

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# HAZARDS KEEP OUT OF REACH OF CHILDREN WARNING

PRECAUTIONARY STATEMENTS AND 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.

Physical and Chemical hazards
COMBUSTIBLE
Do Not Use or Store Near Heat
or Open Flame • Do Not Cut or
Weld Container

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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

## **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, pends, 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 bearing of equipment or disposal of wastes. Use this product only as specified on this label.

### General Information

LORSBAN 4E inserprise 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, start filling the spray tank with the required amount of water, add the recommended amount of the recommended amount of the tank with the balance of the water assaced. Maintain sufficient agricultion during both mixing and application to ensufe unificienty of the spray mixture.

## Use and Dosage Recommendations

**COTTON:** Use LORSBAN 4E for control of the following pests at the dosages indicated:

Plant bugs

(Lygus, Mirids) . . . . 1 pint per acre;

Pink bollworm, bollworms,

(Heliothis spp.), boll weevil,

spider mites ..... 2 pints per acre;

Mix the required dosage with 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. Re-treat as necessary to maintain control.

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For effective control of spider mites when large numbers of eggs are present, apply a second spray within 5 to 7 days afer initial treatment to control newly hatched larvae.

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<br>(da) s). | .Size                | e Inster          |
|------------|-----------------|----------------------|-------------------|
| Get the    | Hatch ¢         | 1/16"                | Hatch             |
| worms at { | 3               | 3/32"                | ecc. I            |
| this stage | 5               | 9/32"                | แอร์เป <b>!</b> * |
|            | <b>ົ 6,</b> ີ ເ | ".// <sub>16</sub> " | v 111             |
|            | 8               | 11/16"               | e - 0 el 🗸 o      |
| 1/16" -    | • • • •         |                      |                   |
| 3/32       | 4               | 135                  | - 19 in           |
| 9/32       | ٤ , د           | 恒人                   | 11/10 m           |
| 7/16"      |                 | يع 📇                 |                   |
| 11/16" \$1 |                 | (##)                 |                   |

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Proper application techniques help to ensure thorough spraycoverage and correct dosage and are thus important in obtaining good control of pests. Considerabese suggestions when applying LORSBANAE Insecticide on collon:

Aerial Application: Shorten boom length to reduce spray from entering the vortices at the wing tips. Swalf width should be reduced when wind direction in the came as direction of spraying.

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

Flying at a height of 5-15 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

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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.

FIELD CORN: For Use to Control Cutworms

Preplant Treatment: Use 2 to 4 pints of LORSBAN4E in not less than 10 gallons of water per acre and apply as a broadcast spray to the soil surface using suitable power-operated ground spray equipment. As soon as possible after treatment incorporate the insecticide into the table to 4 inches of soil using a gisc, field cultivator or equivalent equipment.

Postemergence Treatment: Use, 2' to 3 pints of LORSBAN 4E per acre in sufficient water to ensure thorough coverage! Apply as a broadcast spray using either aerial (fixed-wing or belicopter) or power-operated ground spray equipment, For erial application use at least 2 gallons of water per acre. Treat when fixed counts indicate that worms are or may become alorothem, preferably when soil is moist-and worms are active on or rear the soil surface. If ground is dry, cloudy, or crusty at time of treatment, worms may be protected from

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the spray and effectiveness will be reduced. If such conditions exist, shallow cultivation using a Lary hoe or equivalent equipment before or soon after freatment may improve control. Consult your State Agricultural Experiment Station or Extension Service specialist for additional information concerning cutworm, control practices in your area.

Restrictions: Make only one posteriergence application for cutworm control per season.

Do not allow livestock to graze in treated areas or feed treated corn silage, fooder or grain to meet or dairy animals within 50 days after treatment.

Attention: Before using this product, read and carefully observe all hazard information given in this booklet.

PEACHES: Use LORSBAN 4E Insecticide 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.

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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.

# 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.

# ATTENTION:

Do Not Cut or Weld Container,

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 not any other warranty of MEHCHANTABILITY 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

ACCEPTED

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Under the Fodered Insecticide,
Pungicide, and I may be Act,
os amended, ict is like
registered under UNDANY
AND SUBSIDIARIES
MIDLAND, MICHIGAN 48640, USA

MIDLAND, MICHIGAN 48640, USA HORGEN, SWITZERLAND HONG KONG CORAL GABLES, FLORIDA 33134, USA SARNIA, ONTARIO, CANADA Strademark of THE DOW CHEMICAL COMPANY