

464-448

1 of 11

PM12

NOV 13 1984

Mr. Robert Bischoff  
The Dow Chemical Company  
P.O. Box 1706  
Midland, MI 48640

Dear Mr. Bischoff:

Subject: Change in Use Pattern and Geographical Restriction--Onions  
Lorsban 4E  
EPA Registration No. 464-448  
Application Dated August 22, 1984

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. A stamped copy is enclosed for your records.

You may eliminate the label restriction "For use on direct seeded onions."

Since the dry bulb onion data are adequately covered by current tolerance and label restrictions, you may remove the geographical restrictions from the dry bulb onion use directions.

Sincerely yours,

Jay S. Ellenberger  
Product Manager (12)  
Insecticide-Rodenticide Branch  
Registration Division (TS-767)

Enclosure

Job-39467:Ellenberger:Kendrick & Co.:898-1270:tar:RD-51:11/5/84:del.11/13/84

CONCURRENCES

SYMBOL ▶								
SURNAME ▶								
DATE ▶								

# Specimen Label

AC...  
w/comments  
NOV 13 1984  
464-448

# LORSBAN\* 4E insecticide

For Control of Various Insects Infesting Certain Field, Fruit, Nut and Vegetable Crops

Active Ingredient(s):  
Chlorpyrifos [O,O-diethyl O-(3,5,6-trichloro-2-pyridyl) phosphorothioate] ..... 40.7%  
Aromatic Petroleum Derivative Solvent ..... 22.8%  
Inert Ingredients ..... 36.5%  
Contains 4 pounds of chlorpyrifos per gallon  
E.P.A. Registration No. 464-448  
E.P.A. Est. 464-MI-1

## KEEP OUT OF REACH OF CHILDREN WARNING

### AVISO:

### PRECAUCION AL USUARIO:

Si usted no lee inglés, 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 • CAUSES  
SUBSTANTIAL BUT TEMPORARY EYE  
INJURY • CAUSES SKIN IRRITATION**

**Avoid Breathing Vapor Or Spray Mist • Do  
Not Get In Eyes, On Skin, Or On Clothing •  
Wear Protective Clothing, Rubber Gloves,  
And Goggles • Wash Thoroughly With Soap  
And Water After Handling And Before Eating  
Or Smoking • Immediately Remove  
Contaminated Clothing And Wash Before  
Reuse • Destroy Contaminated Shoes • 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**

### STATEMENTS OF PRACTICAL TREATMENT

**If Swallowed:** Do not induce vomiting. Contains aromatic petroleum solvent. Call a physician or poison control center immediately. **If In Eyes:** Flush with plenty of water for at least 15 minutes. Get medical attention. **If On Skin:** Wash with plenty of soap and water. Get medical attention if irritation persists. **If Inhaled:** Remove to fresh air if effects occur. Get medical attention.

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

### Physical or Chemical Hazards

**COMBUSTIBLE • Do Not Use or Store Near Heat or Open Flame. • Do Not Cut or Weld Container.**

### Environmental Hazards

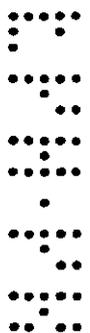
This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area. LORSBAN 4E insecticide is toxic to fish, birds and other wildlife. Fish and crustaceans 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.

### REENTRY STATEMENT

Do not enter treated areas without protective clothing until sprays have dried (or, if appropriate, dusts have settled). Because certain states may require more restrictive reentry intervals for various crops 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 until sprays have dried (or, if appropriate, dusts have settled) 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

LORSBAN 4E



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understood by workers. Written warnings must include the following information: **WARNING.** Area treated with LORSBAN 4E insecticide on (insert date of application). Do not enter without protective clothing until sprays have dried (or, if appropriate, dusts have settled). In case of accidental exposure (insert actions to take as shown by the Statement of Practical Treatment section on this label).

**NOTICE:** Read the entire label. 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 the Limit of Warranty and Liability.

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!

Do not use on turf for structural pest control. Do not formulate this product into other end use products.

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### DIRECTIONS FOR USE

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

### 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, add a portion of the required amount of water to the spray tank and with agitation add the LORSBAN 4E. Complete filling the tank with the balance of water needed. Maintain sufficient agitation during both mixing and application to ensure uniformity of the spray mixture.

LORSBAN 4E insecticide may also be used in tank mixtures with certain herbicides and/or with non-pressure fertilizer solutions as recommended under specific crop use directions. Prepare tank mixtures in the same manner as recommended above for use of LORSBAN 4E alone. When tank mixtures of LORSBAN 4E and herbicides are involved, add wettable powders first, flowables second, and emulsifiable concentrates last. Where a fertilizer solution is involved, it is strongly recommended that a fertilizer pesticide compatibility agent such as Unite(1) or Complex(2) be used. Maintain constant agitation during both mixing and application to ensure uniformity of the spray mixture.

**NOTE:** Test compatibility of the intended tank mixture before adding LORSBAN 4E 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.

(1) Trademark of The Hopkins Agricultural Chemical Company.

(2) Trademark of Kalo Laboratories, Inc.

### Overhead Sprinkler Irrigation

The following use directions are to be followed when LORSBAN 4E is applied through overhead sprinkler irrigation systems. Thoroughly clean the injection system and tank of any fertilizer or chemical residues, and dispose of the residues according to state and federal laws. Flush the injector with soap and water. Calibrate the injector system. Prepare a mixture of non-emulsifiable oil, LORSBAN 4E and water, if used, in a steel mix tank after determining the amount of insecticide that will be injected per hour at the desired rate and time of operation. Pump the required LORSBAN 4E insecticide into the steel tank, start mechanical or hydraulic agitation, and add the non-emulsifiable oil and then water, if used. Continually agitate the LORSBAN 4E plus oil mixture. Set the sprinkler system to deliver the desired inches of water per acre. Start the water pump and sprinkler, and let the system achieve the desired pressure and speed before starting the injector. The LORSBAN 4E plus oil mixture must be injected continuously and uniformly into the irrigation water line as the sprinkler is moving. This procedure is necessary to deliver the desired rate per acre in a uniform manner. When application is finished, allow the entire irrigation and injector system to be thoroughly flushed clean before stopping the system.

The following use precautions will result in a safe and successful application of LORSBAN 4E plus oil mixtures:

1. In water dilutions of less than 1 part LORSBAN 4E to 14 parts water, use only in steel mix tanks.
2. **USERS OF LORSBAN 4E INSECTICIDE THROUGH OVERHEAD SPRINKLER IRRIGATION SYSTEMS MUST COMPLY WITH ALL FIRE REGULATIONS THAT APPLY TO CLASS 1C FLAMMABLE LIQUIDS. MINIMUM DISTANCES AND PROPER ELECTRICAL CONSTRUCTION IS ESSENTIAL TO SAFELY HANDLE LORSBAN 4E. ELECTRICAL INSTALLATIONS MUST MEET CLASS 1 GROUP D DIV. 1 OR 2 REQUIREMENTS AS SPECIFIED IN THE NATIONAL ELECTRICAL CODE 70 (NEC 70). THIS TYPE OF WIRING IS GENERALLY REFERRED TO AS EXPLOSION PROOF. CONSULT WITH A LICENSED ELECTRICIAN TO CORRECTLY WIRE THE INJECTION SYSTEM AS DE-**

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**FINED BY NEC 70. WHEN LORSBAN 4E INSECTICIDE IS DILUTED WITH AT LEAST 2 PARTS WATER THE CHEMICAL INJECTOR MOTOR AND WIRING NEED NOT BE EXPLOSION PROOF. NON-EXPLOSION PROOF ELECTRICAL EQUIPMENT MUST EITHER BE OUTSIDE THE HAZARD ZONE OR DISCONNECTED FROM THE POWER SOURCE WHILE MAKING THE DILUTION.**

3. The irrigation pumping plant and the chemical injection pump must be interlocked so that if the irrigation pumping plant stops, the chemical injection pump also will stop. This procedure will prevent the possibility of filling the entire irrigation pipeline with the chemical mixture from the supply tank.
4. Properly functioning check and vacuum relief valves (antisiphon devices) are required in the irrigation pipeline to keep water and/or a mixture of water and chemical from draining or siphoning back into the irrigation well and polluting the ground water. Both of these valves are located between the irrigation pump discharge and the place of chemical injection into the irrigation pipeline.
5. A properly functioning check valve in the chemical injection line is required to stop the flow of water from the irrigation system into the chemical supply tank.
6. A positive displacement pump is required to provide uniform injection into the water line. The injector pump must provide a greater pressure than that of the irrigation system at the point of injection. The pump must contain Viton seals and be rated for use in hazardous areas. All electrical service inside the hazard zone must meet National Fire Protection Association 30 (NFPA 30) and NEC 70.
7. To insure uniform mixing of the insecticide into the water line, inject the mixture into the fertilizer injection port or just ahead of an elbow or tee in the irrigation line so that the turbulence created at those points will assist in mixing. It is suggested that the injection point be higher than the insecticide tank to prevent siphoning.
8. The steel tank holding the insecticide mixture should be large enough to allow the system to complete a revolution with one filling. It should be free of rust, fertilizer, sediment, and foreign material, and equipped with an in-line strainer situated between the tank and the injector pump.
9. In order to calibrate the irrigation system and injector to apply the LORSBAN 4E plus oil mixture, determine the following: 1) calculate the number of acres covered by the system, 2) the number of minutes for the system to make one revolution, 3) the number of inches of water per acre delivered by the system, 4) the number of minutes required for the injector pump to inject one gallon of insecticide mixture, and 5) the total gallons of insecticide mixture needed to cover the desired acreage. Divide the total gallons of insecticide mixture needed to cover the irrigated area by the number of minutes to make one circle. This value equals the gallons per minute output that the injector must deliver. It is suggested that the system be calibrated at least twice before operation, and the system should be monitored during operation.
10. Do not apply a pesticide solution when wind speed or direction results in unacceptable drift from the application area.
11. Do not allow irrigation runoff to collect or runoff and

Corn rootworm adults (spotted cucumber beetle), grasshoppers ..... 1/2 to 1 pint per acre;  
 Alfalfa blotch leafminer, alfalfa looper, alfalfa weevil larvae and adults, aphids, armyworms, cutworms, Egyptian alfalfa weevil larvae and adults, plant bugs, leafhoppers, spittlebugs ..... 1 to 2 pints per acre.

Note: Use higher rates to control spotted alfalfa aphid in California and Nevada.

Mix the required dosage with enough water to ensure thorough coverage of crop foliage and apply using aerial (fixed-wing or helicopter) or power-operated ground spray equipment. For aerial application use 2 to 5 gallons of water per acre. Control may be reduced at low spray volumes under high temperature and wind conditions. Treat when field counts or crop injury indicates that damaging pest populations are developing or present; however, do not apply more than once per crop cutting. Some reduction in insect control may be evident under excessively cool conditions.

LORSBAN 4E may also be applied through overhead sprinkler irrigation systems as a postemergence broadcast application to control the listed foliar pests. For best results, use the recommended rate of LORSBAN 4E per acre. Maintain vigorous tank agitation to assure uniformity of the application throughout the injection period. See the Overhead Sprinkler Irrigation section of this label for further information.

LORSBAN 4E insecticide should not be tank-mixed with pesticides, surfactants, or fertilizer formulations unless prior use has shown the combination non injurious under your current conditions of use. Some phytotoxic symptoms may be observed on young, tender rapidly growing alfalfa when treated with LORSBAN 4E. Alfalfa will outgrow the symptoms and no yield loss should be expected.

This product is highly toxic to bees exposed to direct treatment on alfalfa. Do not apply if nearby bees are clustered outside of hives and bees are foraging. Protective information may be obtained from your Agricultural Extension Service.

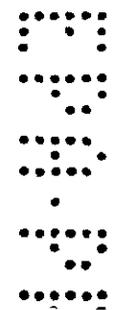
**Restrictions:** Do not cut or graze treated alfalfa within 14 days after application of 1 pint of LORSBAN 4E per acre nor within 21 days after application of rates above 1 pint per acre. Do not make more than 4 applications per year.

**ASPARAGUS:** Use LORSBAN 4E to control cutworms by application at the rate of 2 pints per acre. Mix the specified dosage in sufficient water to ensure thorough coverage of treated plants and apply as a broadcast spray using suitable power-operated ground spray equipment. It is preferable to apply LORSBAN 4E when the soil is moist and worms are active on or near the soil surface.

**Restrictions:** Do not make more than one application per season or apply within one day of harvest. Based on available residue data, the use of LORSBAN 4E on asparagus is limited to the Mid-west and Pacific Northwest.

**CHERRIES:** Use LORSBAN 4E for the control of lesser peachtree borer by application as a trunk spray. Mix 1-1/2 to 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 and lower limbs. Make a second application two weeks after the first one and a third application after harvest. Consult your State Agricultural Experiment Station or Extension Service Specialist for proper time to treat in your area.

**Restrictions:** Make only three applications per year. Do not apply within 6 days before harvest. Do not allow meat or



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CROP	PEST	Dosage LORSBAN 4E for Spray Coverage		Gallons of Spray Per Acre For Dilute Applications <sup>3</sup>	Remarks
		Dilute (Pints/100 gal. water)	Dilute or Concentrate (Pints/Acre)		
Grapefruit Lemons Oranges and Other Citrus Fruits	Aphids, Katydid Lepidopterous larvae Cutworms Fruit tree leafroller Orange tortrix Western tussock moth	Outside Coverage Spray (OC)  1/2 to 1	  2 to 7	  200 to 700	Use directions apply in all states including California.
	Citrus thrips <sup>1</sup> , Mealy bugs <sup>1</sup> Scale insects <sup>2</sup> Black scale Brown soft scale California red scale Snow scale, Chaff scale	  1/2 to 1	  2 to 7	  200 to 700	Use directions apply in all states except California (See footnotes 1 & 2)

(1) In California apply as Thorough Distribution Coverage (TDC) using 1/2 to 1 pint of LORSBAN 4E in 100 gallons of water and 5 to 12 pints LORSBAN 4E per acre in dilute or concentrate sprays. For dilute sprays, apply 600 to 1200 gallons of spray per acre.

(2) In California apply as Thorough Coverage (TC) using same dosages as in (1). For dilute sprays apply 1200 to 2400 gallons of spray per acre but do not apply more than 12 pints of LORSBAN 4E per acre.

(3) Gallonage per acre based on average size of mature trees. Adjust to tree size per acre.

For dilute applications, use the specified dosage in 100 gallons of water for the spray type indicated for pest to be controlled. For concentrate sprays, use the same amount of LORSBAN 4E per acre that would be needed for application as a diluted spray, using appropriate application/coverage procedures. Treat when insects become a problem or in accordance with the local spray schedule recommended by your State Extension Service Specialist. Do not apply during bloom period or when temperature exceeds 95° F. Do not tank mix LORSBAN 4E and PLICTRAN® 50W miticide in low volume applications.

**Restrictions:** Do not apply more than 2 applications per fruit year or more than 15 pints of LORSBAN 4E insecticide per acre per fruit year. Do not make second application within 30 days of the first application. Do not treat within 21 days before harvest for applications up to 7 pints of LORSBAN 4E per acre nor within 35 days for application of rates above 7 pints per acre. Do not pick fruit or do other work involving contact with trees within 2 days after treatment. Do not allow livestock to graze in treated areas.

**CRANBERRIES:** Use LORSBAN 4E by application as a broadcast, foliar spray to control brown spanworm, cranberry fruitworm, cranberry weevil, cutworms, fireworms, and Sparganothis fruitworms at the rate of 3 pints per acre. Mix the specified dosage in enough water to ensure thorough coverage and apply no less than 5 gallons of spray per acre when using aerial equipment or no less than 100 gallons of spray per acre when using ground equipment. For weevil control, apply once at flower bud development (late May, early June) and, if weevils are present, once after 100% bloom (early to mid July). For other insects, treat when field counts indicate damaging insect populations are developing or present. Apply only after the winter flood has been removed. To avoid pesticide contamination of flood waters, make no applications while bogs are flooded.

**Restrictions:** Do not make more than two applications per year or apply within 60 days before harvest.

**FIELD CORN, POPCORN, SWEET CORN:** For use to control cutworms, armyworms, corn earworm, corn rootworm adults, chinch bugs, grasshoppers, wireworms, flea beetle larvae and adults, aphids, billbugs, grubs, western bean cutworm, corn borers, symphylans, common stalk borer, and lesser cornstalk borer.

**Preplant Incorporation Treatment:** Use LORSBAN 4E at the following rates by application in sufficient water to the soil surface and incorporate into the soil:

- Cutworms, symphylans ..... 2 to 4 pints per acre;
- Wireworms, billbugs, flea beetle larvae, grubs ..... 4 pints per acre.

Use recommended rate 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. On the same day of treatment, incorporate the insecticide into the top 2 to 4 inches of soil using a disc, field cultivator or equivalent equipment.

LORSBAN 4E insecticide may also be applied in tank mixtures with non-pressure fertilizer solutions and/or with Bladex<sup>(1)</sup>, Eradicane<sup>(2)</sup>, Sutan<sup>(3)</sup>, Lasso<sup>(4)</sup>, Dual<sup>(5)</sup>, and Atrazine herbicides. See the Mixing Instructions section of this label for further information. Read and carefully follow all applicable directions, restrictions, and precautions on labeling for the other products used in combination with LORSBAN 4E.

- (1) Trademark of Shell Chemical Company
- (2), (3) Trademark of Chemical Company
- (4) Trademark of Monsanto Company
- (5) Trademark of Ciba-Geigy Corporation

**Cultivation Time Treatment:** Use LORSBAN 4E at the rate of 2 pints per acre to control corn rootworm larvae. Apply LORSBAN 4E as a water emulsion on both sides of the row at the base of the plants just ahead of the cultivator shovels. Cover the insecticide with soil around the brace roots. The best time to apply a basal treatment of a soil insecticide with cultivation is near the beginning of egg hatch. A cultivation application of LORSBAN 4E may be made in addition to an at planting application of LORSBAN 15G granular insecticide.

**Postemergence Treatment:** Use LORSBAN 4E at the following rate by application in sufficient water to ensure thorough coverage of treated plants:

- Grasshoppers ..... 1/2 to 1 pint per acre;
- Armyworms, chinch bugs, aphids, corn rootworm adults ..... 1 to 2 pints per acre;
- European and southwestern corn borer, corn earworm ..... 1-1/2 to 2 pints per acre;
- Cutworms, billbugs, lesser cornstalk borer, flea beetle adults, western bean cutworm, common stalk borer ..... 2 to 3 pints per acre.

Note: The recommended dosage will control silk clipping by corn rootworm adults.

Treat when field counts indicate that pests are or may become a problem. For best billbug, chinch bug, and flea beetle control, apply with sufficient water to ensure a minimum spray volume of 20 to 40 gallons per acre and 40 psi using ground spray equipment. On corn less than 6 inches tall, apply the insecticide spray in a 9 to 12 inch wide

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band over the row. On corn greater than 6 inches tall, apply the insecticide spray using drop nozzles directed to the base of the plant. When chinch bugs continue to immigrate to corn over a prolonged period or under extreme pressure, a second application of LORSBAN 4E may be needed.

For cutworm, western bean cutworm, armyworm, aphid, European and southwestern corn borer, grasshopper, lesser cornstalk borer, corn rootworm adult, corn earworm, and common stalk borer control, apply as a broadcast spray using either: aerial (fixed-wing or helicopter) or power-operated ground spray equipment. For aerial application use 2 to 5 gallons of spray per acre. Control may be reduced at low spray volumes under high temperature and wind conditions. For cutworms, it is preferable to apply LORSBAN 4E when soil is moist and worms are active on or near the soil surface. If ground is dry, cloddy or crusty at time of treatment, worms may be protected from the spray and effectiveness will be reduced. If such conditions exist, shallow incorporation using a rotary hoe or other suitable equipment immediately before or soon after treatment may improve control. Consult your Agricultural Experiment Station or Extension Service specialist for additional information concerning control practices in your area. For first-generation European corn borer control, treat when 25 to 50 percent of the corn plants show pinhole feeding or leaf-feeding scars. Ground applications should be directed into the corn whorls. For second-generation European corn borer control, treat when field counts of egg masses indicate pests are or may become a problem. For southwestern corn borer control, treat when field counts of egg masses indicate pests are or may become a problem. A second application may be applied 10 to 14 days later, if needed due to reinfestation. For common stalk borer control, treat approximately 11 days after application of Roundup(1) herbicide or after complete burndown with paraquat herbicide(3 to 5 days). Do not use LORSBAN 4E in combination with the burndown herbicide for control of common stalk borer.

(1) Trademark of Monsanto Company

LORSBAN 4E insecticide may also be applied through overhead sprinkler irrigation systems as a postemergence broadcast application to control the above listed foliar insects. For best results, use the recommended rate of LORSBAN 4E in a tank mix with 2 pints per acre of non-emulsifiable oil. Maintain vigorous tank agitation to assure uniformity of the LORSBAN 4E plus oil mixture throughout the injection period. See the Overhead Sprinkler Irrigation section of this label for further information.

**Restrictions:** Do not apply within 35 days before harvest of grain. Do not apply more than a total of 15 pints of LORSBAN 4E per acre per season. Do not allow livestock to graze in treated areas nor harvest treated corn silage as feed for meat or dairy animals within 14 days after last treatment. Do not feed treated corn fodder to meat or dairy animals within 35 days after last treatment.

**SWEET CORN Grown Only in Florida and Georgia:** Use LORSBAN 4E to control infestations of beet armyworm, fall armyworm and corn earworm by application as a broadcast, foliar spray at the rate of 1 to 2 pints per acre. Mix the specified dosage in enough water to ensure thorough coverage and apply using suitable aerial or ground spray equipment. For aerial application, use at least 2 gallons of spray per acre. Treat when field counts indicate damaging pest populations are developing or present. Re-treat as necessary to maintain control but do not apply more than twenty-two 1-pint or eleven 2-pint treatments per season.

LORSBAN 4E insecticide may also be applied through overhead sprinkler irrigation systems as a postemergence broadcast application to control the above listed foliar insects. For best results, use the recommended rate of LORSBAN 4E in a tank mix with 2 pints per acre of non-emulsifiable oil. Maintain vigorous tank agitation to assure uniformity of the LORSBAN 4E plus oil mixture throughout the injection period. See the Overhead Sprinkler Irrigation section of this label for further information.

**Restrictions:** Do not apply more than 22 pints of LORSBAN 4E per acre per season. Do not harvest corn ears, allow livestock to graze in treated areas, nor feed treated silage, fodder, or grain to meat or dairy animals within 21 days after treatment. Do not use in conjunction with postplant broadcast, foliar applications of LORSBAN 15G granular insecticide.

**COTTON:** Use LORSBAN 4E for control of the following pests in all states except Arizona and California at the dosages indicated:

- Cotton fleahopper, plant bugs (*Lygus*, *Mirids*) ..... 3/8 to 1 pint per acre;
- Cotton aphid, fall armyworm, grasshoppers, spider mites, thrips, yellow-striped armyworm .. 1/2 to 1 pint per acre;
- Beet armyworm, bollworms (*Heliothis* spp.), boll weevil, cutworms, pink bollworm, salt marsh caterpillar ..... 1 1/2 to 2 pints per acre.

**NOTE:** The recommended dosage rate of 3/8 pint per acre will not achieve the high degree of control of the higher label rate, but will minimize the damage done by plant bugs and cotton fleahopper and allow the beneficial insects to survive, build up, and be available to aid in the control of bollworms infesting cotton.

Use LORSBAN 4E for control of the following pests in Arizona and California at the dosages indicated:

- Armyworms, cotton aphid, cotton fleahopper, *Lygus*, salt marsh caterpillar, thrips ..... 1 to 2 pints per acre;
- Bollworms, (*Heliothis* spp.), boll weevil, cutworms, pink bollworm ..... 2 pints per acre.

**NOTE:** The 2 pint rate will aid in the suppression of cotton leafperforator and spider mites.

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 spray per acre. Treat when field counts indicate damaging insect populations are developing or present. Re-treat as necessary to maintain control.

LORSBAN 4E insecticide may also be applied through overhead sprinkler irrigation systems as a postemergence broadcast application to control the above listed foliar pests. For best results, use the recommended rate of LORSBAN 4E per acre. Maintain vigorous tank agitation to assure uniformity of the application throughout the injection period. See the Overhead Sprinkler Irrigation section of this label for further information.

For effective control of spider mites when large numbers of eggs are present, apply a second spray 3 to 5 days after initial treatment to control newly hatched nymphs.

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 insecticide on cotton.

**Aerial Application:** Shorten boom length to avoid spray entering the vortices at the wing tips. 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 vortices effect can be checked out by flying over a paper tape (adding machine paper) using water with or without soluble 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 spray so do not depend on it. Use flat fan 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.

LORSBAN 4E insecticide may also be used in tank mixtures in all states to control armyworms, bollworms (*Heliothis* spp.), boll weevil, cotton fleahopper, plant bugs (*Lygus*, Mirids), and spider mites as indicated in the following table.

TANK MIXTURE	RATE/ACRE
LORSBAN 4E plus Ambush <sup>1</sup> 2E	1 to 2 pints plus 1/5 to 2/5 pint
LORSBAN 4E plus Pounce <sup>2</sup> 3.2E	1 to 2 pints plus 1/8 to 1/4 pint
LORSBAN 4E plus Pydrin <sup>3</sup> 2.4E	1 to 2 pints plus 1/8 to 1/3 pint
LORSBAN 4E plus Bolstar <sup>4</sup> 6E	1/2 to 1 pint plus 2/3 to 1 1/3 pints
LORSBAN 4E plus methyl parathion <sup>3</sup> plus EPN <sup>5</sup>	1 pint plus 1 lb a.i. plus 2 lb a.i.
LORSBAN 4E plus methyl parathion <sup>3</sup> plus EPN <sup>5</sup>	1 pint plus 0.6 lb a.i. plus 0.6 lb a.i.

<sup>1</sup> Trademark of ICI Americas Inc

<sup>2</sup> Trademark of FMC Corporation

<sup>3</sup> Trademark of Shell Oil Company

<sup>4</sup> Trademark of Farbwerke Bayer GmbH Leverkusen

<sup>5</sup> Use only emulsifiable formulations containing these active ingredients (a.i.)

Mix the tank mixture components in sufficient water to ensure thorough coverage of plants (at least 1 gallon of spray per acre) and apply using aerial spray equipment. Treat when field counts indicate damaging insect populations are developing or present. Re-treat as necessary to maintain control.

**Restrictions:** Make no applications of these tank mixtures closer to harvest than the longest pre-harvest interval shown for any of the products in the tank mixture. Do not allow livestock to graze in treated areas. Do not feed gin trash or treated forage to livestock. Workers entering the field within 48 hours after application should wear protective clothing.

**FIGS:** Use LORSBAN 4E at the rate of 2 quarts per acre for control of driedfruit beetle by application in sufficient water to the soil surface followed by incorporation into the top 3 inches of soil. Apply to fig orchard soil as a dormant application in late winter prior to beetle emergence and prior to leaf formation.

**Restrictions:** Make only one application per year. Do not apply within 7 months of harvest. Based on available residue data, use of LORSBAN 4E on figs is restricted to California.

**GRAIN SORGHUM:** Use LORSBAN 4E insecticide for control of the following pests at the dosages indicated:

Sorghum midge ..... 1/2 pint per acre  
(Apply when 30 to 50 percent of the seed heads are in bloom, repeat at 3-day intervals if necessary);

Greenbugs, grasshoppers, yellow sugar cane aphid, and other aphids ..... 1/2 to 1 pint per acre;

Chinch bugs, lesser cornstalk borer 1 to 2 pints per acre  
(Apply as a directed spray toward the base of the plant using power-operated ground spray equipment with sufficient water to ensure coverage of an 8 to 12 inch band centered on the row. On plants less than 6 inches high, apply an 8 to 12 inch band over the row.);

Armyworms, corn earworm, cutworms ..... 1 to 2 pints per acre;

European and southwestern corn borer ..... 1 1/2 to 2 pints per acre;

Webworms ..... 2 pints per acre.

Mix the specified dosage in enough water to ensure thorough coverage and apply using suitable aerial or ground spray equipment. To minimize chemical injury, do not apply LORSBAN 4E to drought stressed grain sorghum within 3 days following irrigation or rain except where the product is applied in irrigation water.

LORSBAN 4E insecticide may also be applied through overhead sprinkler irrigation systems as a post-emergence broadcast application to control the above listed foliar pests. For best results, use the recommended rate of LORSBAN 4E per acre. Maintain vigorous tank agitation to assure uniformity of the application throughout the injection period. See the Overhead Sprinkler Irrigation section of this label for further information.

**Restrictions:** The treated crop is not to be used for forage, fodder, hay, or silage within 30 days after application of 1 pint of LORSBAN 4E per acre or within 60 days after application of rates above 1 pint per acre. Do not treat sweet varieties of sorghum. Do not apply more than 3 pints of LORSBAN 4E per acre per season.

**GRAPES:** Use LORSBAN 4E insecticide for control of grape root borer by application just before the pest emerges from the soil. Mix 4 1/2 pints of LORSBAN 4E with 100 gallons of water and apply 2 quarts of the diluted spray mixture to the soil surface on a 15-square foot area around the base of each vine. Do not allow spray to contact fruit or foliage.

**Restrictions:** Do not make more than one application per season or apply within 35 days before harvest. Based upon available residue data, the use of LORSBAN 4E in grapes is restricted to states East of the Rocky Mountains.

**MINT:** Use LORSBAN 4E by application as a broadcast, foliar spray to control cutworms at the rate of 2 to 4 pints per acre and mint root borer at the rate of 4 pints per acre. Mix the specified dosage in water to give no less than 10 gallons of spray per acre and apply using ground spray equipment. For cutworm control, treat during May and June when field counts indicate damaging insect populations are developing or present. When larvae are less than 3/4 inch in length, use the 2 pint rate. When larvae are 3/4 inch or more in length, use the higher rate. Make only one application during the growing season. Do not apply within 90 days before harvest. For mint root borer control, apply post-harvest when field counts indicate damaging insect populations are developing or present. Follow treatment with approximately 1 acre inch of sprinkler irrigation immediately after application to incorporate the insecticide.

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ticide into the soil. Make only one post-harvest application per season.

**NECTARINES, 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.

*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.

**ONIONS (dry bulb):** Use LORSBAN 4E insecticide to control onion maggot by application as an in-furrow drench at seeding. Apply LORSBAN 4E at the rate of 1.1 fluid ounce per 1000 linear feet of row at an 18-inch row spacing. Use a minimum of 40 gallons of total drench per acre. Incorporate to a depth of 1 to 2 inches.

*Restrictions:* For use on direct seeded onions only. Do not make more than one application per year. Based on available residue data, use of LORSBAN 4E on onions (dry bulb) is restricted to California (Modoc and Siskiyou Counties), Idaho, Indiana, Michigan, Minnesota, New Jersey, New York, Ohio, Oregon, Washington, and Wisconsin.

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

Lesser cornstalk borer ..... 2 to 4 pints per acre (as a directed spray to the base of the plants in an 8 to 10 inch wide band);

Armyworms, corn earworm, cutworms, leathoppers, mites, rednecked peanutworm, thrips .... 1 to 2 pints per acre;

Velvetbean caterpillar, green cloverworm ..... 1/2 to 1 pint per acre; (as a broadcast, foliar spray using ground or aerial equipment when field counts indicate damaging insect populations are developing or present).

Mix the required dosage in enough water to ensure thorough coverage.

LORSBAN 4E insecticide may also be applied through overhead sprinkler irrigation systems as a postemergence broadcast application to control the above listed foliar pests. For best results, use the recommended rate of LORSBAN 4E per acre. Maintain vigorous tank agitation to assure uniformity of the application throughout the injection period. See the Overhead Sprinkler Irrigation section of this label for further information.

LORSBAN 4E should not be tank mixed with pesticides, surfactants, or fertilizer formulations unless prior use has shown the combination noninjurious under your current conditions of use. To minimize chemical injury, do not apply LORSBAN 4E to drought stressed peanuts within 3 days following irrigation or rain except where the product is applied in irrigation water.

*Restrictions:* Do not make more than one application per season as a directed spray. Directed and foliar sprays should not exceed 8 pints of LORSBAN 4E per acre or 4 pounds of chlorpyrifos (active ingredient) per acre per season. Do not harvest within 21 days after treatment. Do not feed treated peanut forage or hay to meat or dairy animals.

**SOYBEANS:** For use to control armyworms, bean leaf beetle, corn earworm, cutworms, European corn borer, grasshoppers, green cloverworm, lesser cornstalk borer, Mexican bean beetle, saltmarsh caterpillar and other woollybears, southern green stink bug, spider mites, and velvetbean caterpillar.

**Soil Treatment:** Use LORSBAN 4E at the rate of 1 to 2 pints per acre to control cutworms and lesser cornstalk borer. Mix the specified dosage in a minimum of 10 gallons of spray per acre and apply to the soil surface using suitable

ground spray equipment. Equivalent rates of insecticide spray required per 100 feet of row for various row spacing are given in the accompanying table. For at-plant treatments apply the insecticide over the row in a 4 to 6-inch band in front of the planter shoe or press wheel or after the press wheel followed by a drag chain for light incorporation. Do not apply as an in-furrow treatment. For postemergence rescue treatments, apply as a directed spray in a 9 to 12-inch band at the base of the plant. To plants under 6 inches high apply over the top in a 6- to 12-inch band. Treat when field counts or conditions indicate that pests are or may become a problem.

Volume of Spray Per Acre	Fluid Ounces of Spray Required Per 100 Feet of Row for Various Row Spacing			
	36"	32"	28"	24"
10 Gallons	8.8	7.9	6.9	5.9
15 Gallons	13.2	11.8	10.3	8.8
20 Gallons	17.6	15.7	13.7	11.8

**Feller Treatment:** Use LORSBAN 4E at the following rate by application in sufficient water to ensure thorough coverage of treated plants:

European corn borer, southern green stink bug ..... 2 pints per acre

Bean leaf beetle, cutworms, corn earworm, saltmarsh caterpillar and other woollybears ... 1 to 2 pints per acre;

Mexican bean beetle, armyworms 1 to 1-1/2 pints per acre;

Velvetbean caterpillar, grasshoppers, green cloverworm, spider mites ..... 1/2 to 1 pint per acre

Apply as a broadcast spray using either aerial or ground equipment when field counts indicate damaging insect populations are developing or present; retreat as necessary to maintain control. For effective control of spider mites when large numbers of eggs are present, apply a second spray 3 to 5 days after initial treatment to control newly-hatched nymphs. On determinate soybeans do not apply more than one application after pod set.

LORSBAN 4E insecticide may also be applied through overhead sprinkler irrigation systems as a postemergence broadcast application to control the above listed foliar pests. For best results, use the recommended rate of LORSBAN 4E per acre. Maintain vigorous tank agitation to assure uniformity of the application throughout the injection period. See the Overhead Sprinkler Irrigation section of this label for further information.

*Restrictions:* Do not apply more than 6 pints of LORSBAN 4E per acre or 3 pounds of chlorpyrifos (active ingredient) per acre per season. Do not apply last treatment within 28 days before harvest nor apply last two treatments closer than 14 days apart. Do not allow livestock to graze in treated areas nor otherwise feed treated soybean forage to meat or dairy animals within 14 days after application. Do not feed straw from treated soybeans to meat or dairy animals within 28 days after application.

**STRAWBERRIES:** Use LORSBAN 4E insecticide by application as a broadcast foliar spray to control strawberry bud weevil at the rate of 1 quart per acre. Apply in a minimum of 40 gallons of spray per acre when buds first appear and 10 to 14 days later. Do not apply after berries start to form or when berries are present. LORSBAN 4E should not be tank mixed with pesticides, surfactants, or fertilizer formulations unless prior use has shown the combination noninjurious under your current conditions of use. Phytotoxicity may occur when LORSBAN 4E is applied to strawberries experiencing high temperature and drought stress.

*Restrictions:* For pre-bloom use only. Do not make more than two applications per season or apply within 21 days before harvest.

**SUNFLOWERS:** For use to control cutworms, sunflower beetle larvae and adults, stem weevil, sunflower moth, banded sunflower moth, woollybears, seed weevil, and grasshoppers.

**Preplant Incorporation Treatment:** Use LORSBAN 4E insecticide at the following rates by application in sufficient water to the soil surface and incorporate into the soil:

Cutworms ..... 2 to 4 pints per acre.

Use recommended rate 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. On the same day of treatment, incorporate the insecticide into the top 2 to 4 inches of soil using a disc, field cultivator or equivalent equipment.

**Postemergence Treatment:** Use LORSBAN 4E for control of the following pests at the dosage indicated by application in sufficient water to ensure thorough coverage of treated plants:

Cutworms ..... 2 to 3 pints per acre

Sunflower beetle larvae and adults, stem weevil, sunflower moth, banded sunflower moth, woollybears, and seed weevil ..... 1 to 1 1/2 pints per acre;

Grasshoppers ..... 1 pint per acre

Apply as a broadcast spray using either aerial (fixed-wing or helicopter) or power-operated ground spray equipment when field counts indicate that pests are or may become a problem. For cutworm control, a second treatment may be made 7 to 10 days later, if needed. For stem weevil control, optimal treatment time is within 5 to 7 days after adult weevils begin to appear. For sunflower moth control, make first application during early 1 to 5 percent bloom stage. A second treatment may be made 7 days later, if needed. For seed weevil control, treat when field counts indicate there are 10 to 12 adults per plant for oil crops and 1 to 3 adults per plant on confectionary crops. Additional treatments should be made at successive 7 to 10 day intervals if field counts indicate need to re-treat. For sunflower beetle larvae or adult control, treat when field counts indicate there are 10 larvae or 1 to 2 adults per seedling. Additional treatments may be made at successive 7 to 10 day intervals if field counts indicate need to re-treat.

**Restrictions:** Do not apply more than 9 pints of LORSBAN 4E per acre per season. Do not apply within 42 days before harvest. Do not allow livestock to graze in treated areas.

**SUGAR BEETS:** Use LORSBAN 4E by application as a broadcast, foliar spray to control beet armyworms at a rate of 1 1/2 to 2 pints per acre and cutworms at a rate of 2 pints per acre. Treat when field counts indicate that damaging insect populations are or may be a problem. Mix the specified dosage with 2 to 5 gallons of water per acre and apply using suitable aerial spray equipment or with 10 to 30 gallons of water per acre when using power-operated ground spray equipment. Re-treat as necessary to maintain control.

**Restrictions:** Do not apply within 30 days before harvest of beet roots and tops. Do not apply more than a total of 8 pints of LORSBAN 4E per acre per season. Do not allow livestock to graze in treated areas nor harvest treated beet tops as feed for meat or dairy animals within 30 days after last treatment.

**SWEET POTATOES:** Use LORSBAN 4E to control Conoderus wireworms, Systena flea beetles and the sweet potato flea beetle by preplant application at the rate of 4 pints per acre as a broadcast (overall) spray to the soil surface followed by incorporation. Mix the specified dosage with enough water to obtain uniform coverage of the treated area and apply as a coarse spray using suitable ground spray equipment. After application, incorporate the insecticide into the soil to a depth of 4 to 6 inches using a rotary hoe, disc cultivator, or other suitable incorporation equipment. Plant the crop in the usual manner as soon as possible after treatment.

**Restrictions:** Do not make more than one application per season.

**TOBACCO:** Use LORSBAN 4E for preplant treatment to control larvae of cutworms, flea beetles, mole crickets, root maggots, and wireworms. Apply 2 to 3 quarts of LORSBAN 4E per acre in not less than 10 gallons of water as a broadcast (overall) spray to the soil surface one week before transplanting. Immediately following application, incorporate the insecticide into the soil to a depth of 2 to 4 inches using suitable equipment.

**TREE FRUITS:** Use LORSBAN 4E as a dormant or delayed dormant spray at the rates indicated to control the following insects on the crops listed

Crop	Insect	Dosage LORSBAN 4E
Apples	Rosy apple aphid San Jose scale Lygus Pandemis leafroller Climbing cutworms	1/2 to 1 pint
Pears	San Jose scale Climbing cutworms Pear psylla adults	
Plums, Prunes	San Jose scale Mealy plum aphid Climbing cutworms Peach twig borer	
Almonds Peaches, Nectarines	San Jose scale Peach twig borer Climbing cutworms	

Tank mix the specified dosage with 1 to 2 gallons of a petroleum spray oil recommended for dormant use in 100 gallons of water and spray the entire tree by application to runoff using suitable ground spray equipment. For low volume (concentrate) sprays (40 to 100 gallons of spray mixture per acre) use the same amounts of LORSBAN 4E and spray oil per acre required for application as a dilute spray and apply in a manner that will ensure thorough coverage of the trees. Use the higher dosage of LORSBAN 4E for severe infestations. Use oil as recommended by your State Agricultural Experiment Station or Extension Service Specialist.

**Restrictions:** Make only one application during the dormant season. Do not allow meat or dairy animals to graze in treated orchards.

**VEGETABLES:** Use LORSBAN 4E to control root maggots on the following crops at the dosages indicated:

Cauliflower .. 1.6 to 2.4 fl oz per 1000 linear feet of row.

Broccoli, Brussels Sprouts, Cabbage, Chinese Cabbage, Turnips ..... 1.6 to 2.75 fl oz per 1000 linear feet of row.

For direct seeded crops apply the specified dosage in a water-based spray as a 4-inch wide band over the row at planting time, behind the planter shoe and in front of the press wheel to achieve shallow incorporation. Apply in a minimum of 40 gallons of total spray per acre.

For transplanted crops, apply LORSBAN 4E as a water-based spray directed to the base of the plants immediately after setting. Use a minimum of 40 gallons of total spray per acre. Do not add any additional adjuvants, surfactants, or spreader stickers. Do not apply as a foliage application.

**Restrictions:** Do not apply more than 2 pints of LORSBAN 4E to cauliflower planted in 40-inch rows. Use proportional amounts for other row spacings not to exceed 4 pints of LORSBAN 4E per acre. Do not apply more than 2.6 pints of LORSBAN 4E per acre to broccoli, Brussels sprouts, cabbage, Chinese cabbage, and turnips planted in 40-inch rows or more than 4 1/2 pints of LORSBAN 4E per acre to these crops in 20-inch rows (or two rows per bed). Use proportional amounts for other row spacings not to exceed 4 1/2 pints of LORSBAN 4E per acre. Do not make more than one application per season or apply within 30 days before harvest.

Radishes ..... 1.0 fl oz per 1000 linear feet of row.

Apply the specified dosage as a water-based drench in the seed furrows with the seed at planting time. Use a minimum of 40 gallons of total drench per acre.

**Restrictions:** Do not apply more than 5 1/2 pints of LORSBAN 4E per acre or make more than one application per season.

Rutabagas ... 1.6 to 3.3 fl oz per 1000 linear feet of row.

Apply the specified dosage in a water-based spray as a 4-inch wide band over the row at planting time, behind the planter shoe and in front of the press wheel to achieve shallow incorporation. Use a minimum of 40 gallons of total spray per acre.

**Restrictions:** Do not apply more than 4 1/2 pints of LORSBAN 4E per acre or make more than one application per season. Do not use rutabaga tops for food or feed purposes.

To avoid phytotoxicity in vegetable crops, do not mix with other pesticide products or treat plants that are under extreme heat and drought stress.

### STORAGE AND DISPOSAL

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

**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 offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities. For reusable portable containers, do not rinse or put any other material into container. When returning reusable portable container, seal all openings and return to owner.

Or

**Container Disposal:** Triple rinse (or equivalent). Then puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

### ATTENTION

Do Not Cut or Weld Container

### 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 conditions 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 such losses or damages to be eligible to receive either remedy given below. The EXCLUSIVE REMEDY OF THE BUYER OR USER is 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.

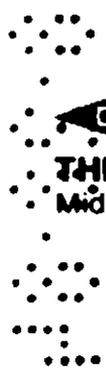
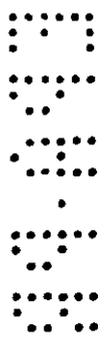
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DISCARD PREVIOUS SPECIMEN LABELS  
REVISIONS INCLUDE (1) ADDED USE ON  
ASPARAGUS (2) CORRECTED FIRST AID  
FOR INGESTION (3) CORRECTED TABLE  
UNDER TREE FRUITS (4) ADDED NEW  
PESTS UNDER GRAIN SORGHUM  
SUNFLOWERS, AND TOBACCO (5) REVISED  
USE INSTRUCTIONS UNDER TREE FRUITS  
AND VEGETABLES (TRANSPLANTED  
CROPS)

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