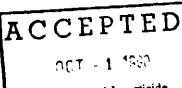
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Under the Federal Insecticide, Fungicide, and Rodenucide Act, as amended, for the pesticide registered under EPA Reg. No. 64,719-33

Lorsban*

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

Active Ingredient(s):

Chlorpyrifos [O,O-diethyl O-(3,5,6-trichloro-2-pyridinyl) phosphorothioate]	40.7°⁄o
Inert Ingredient(s)	59.3°%
Contains 4 pounds of chlorpyrifos per gallon	
E.P.A. Registration No. 464-448	

E.P.A. Est. 464-MI-1:MMI: 464-CA-1 MPI

Superscript used corresponds to letter in lot number.

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 • 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 • Keep Away From Food, Feedstuffs And Water Supplies

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 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 protopain, 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.

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

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 when disposing of equipment washwaters. This product is highly toxic to bees exposed to direct treatment or residues on blearing cropsion 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

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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 AGRICULTURAL CHEMICAL

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



REENTRY STATEMENT

Do not allow reentry into treated areas within 24 hours unless protective clothing is worn. Protective clothing consists of at east a hat or other suitable nead covering: a long-sleeved shirt and long-legged trousels or a coverall type garment fail of closely woven fail i.e. covering the body including the arms and legs), shoes and so its Because certain states may require more restrictive reentry intervals for various crops treated with this pro- ω_{-} consult your State Department of Agriculture for further information.

Written or or a summings must be given to workers who are expected to be in a treated area or in an aliea about to be treated with this product. These or all warnings shall inform workers of areas or fields that may not be entered without protective clothing and action in trake in case of accidental exposure as shown by the Statement of Practical Treatment section on this label. When or all warnings are given invarings shall be given in the traggiant customarily enderstood by workers. Written ward by the statemart with LORSBAN 48 insecticide on (insert date of application). Do not enter without protective clothing (or 24 hours. In case of accidential exposure (insert actions to take as shown by the Statement of Practical Treatment section on this label).

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

Tree Fruits (Dormant Delayed Dormant)	10
Tree Nuts	10
Vegetables	11
Storage and Disposal	11
Special Local Needs	13

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 spray equipment

Mixing Instructions

To prepare the spinor, add a portion of the required amount of water to the spray tank and with containing add the LORSBAN 4E. Complete filling, he 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-prevsure fertilizer solutions as recommended under specific crop use directions. Note that LORSBAN 4E may be inactivated by suffur containing ferhilizer solutions. Prepare tank mixtures in the same manner as recommended above for use of LORSBAN 4E alone. When tank mixtures of LORSBAN 4E alone with tank mixtures of LORSBAN 4E alone with the tank mixtures of the same manner as recommended above for use of the same manner as recommended above for use of the same manner as recommended above for use of the same manner as recommended above for use of the same manner as recommended above for use of the same manner as recommended above for use of the same manner as recommended and wettable powders first. Towables second, and emulsifiable concentrates last. Where a fertilizer solution is involved, it is strongly recommended that a fertilizer pesticide compatibility agent such as Unite or Comper to be used. Maintain constant agitation during both mixing and application to er sure uniformity of the spray mixture. Do not allow spray mixtures to stand overnight.

NOTE Teut compatibility of the intended tank mixture before adding LCRSBAN 4E to the spray or mix tank. Add proportionate amounts of each ingredient to a pint or quart jail can, shake and let set 15 minutes. Formation of circopitates that do not readily redisperse indicates an or ompatible mixture that should not be used.

Sprinkles Irrigation

LCTL BAN 4E may be applied by sprinkler irrigation for the following crop class

Allotta, Citrus Orchard Floors, Field Corn, Popcorn Sweet C. m. Cottou, Cranberries, Sorghum, and Sovo (ans

See the use sections for the individual crops for fugher application information. Do not apply this preducint the above listed cross through any other type of irrigation system. Do not app - this product up chemidation to any other crop The following use directions are to be followed when LORSBAN 4E is applied through sprinklei ingation systems. Thoroughly clean the intertion system and tank of any fertilizer or chemical regimes, and dispose of the residues according to state and federal laws. Flush the injector with soap and water. Determine if a affigurit of insecticide needed to cover the desired acreated Pump the required LORSBAN 4E insecticide into a steel 127 "staft mechanical or hydraulic agitation, and add in order the non-emulsifiable of and or water. Continually agitate the mixture containing LORSBAN 4E. 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. Start the injector and calibrate the injector system according to section 14 (below). The mixture containing LORSBAN 4E must be injected continuously and uniformly into the impation water line as the sprinkler is moving. This procedure is necessary to deliver the desired

rate per acre in a uniform manner. When the 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 mixtures containing LORSBAN 4E.

- 1 Apply this product only through sprinkler irrigation systems including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, micro sprinkler, or hand move. Do not apply this product through any other type of irrigation system.
- 2 Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from nonuniform distribution of treated water.
- 3 If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.
- 4 Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system
- 5 A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise
- 6 The system must contain a functional check valve. vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow. Refer to the American Society of Agricultural Engineer's Engineering Practice 409 for more information
- 7 The pesticide injection pipeline must contain a functional automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump
- 8 The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down
- 9 The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops
- 10 The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock. The metering pump must provide a greater pressure than that of the irrigation system at the point of injection. The pump must meet Section 675 for "Electrically Driven or Controlled Irrigation Machines" NEC 70 and must contain Viton or Teflon seals.
- 12. To insure uniform mixing of the insecticide into the water line, inject the mixture through a nozzle placed in 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.
- 13. 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.

- 14 In order to calibrate the irrigation system and injector to apply the mixture containing LORSBAN 4E, determine the following (1) Calculate the number of acres irrigated by the system, 2) Set the irrigation rate and determine the number of minutes for the system to cover the intended treatment area, 3) Calculate the total gallons of insecticide mixture needed to cover the desired acreage. Divide the total gallons of insecticide mixture needed by the number of minutes to cover the treatment area. This value equals the gallons per minute output that the injector must deliver. Convert the gallons per minute to milliliters or ounces per minute. Calibrate the injector pump with the system in operation at the desired irrigation rate if is suggested that the injector pump be calibrated at least twice before operation, and the system should be monitored during operation
- 15. Do not apply when wind speed favors drift beyond the area intended for treatment. End guns must be turned off during the application, if they irrigate nontarget areas
- 16. Do not allow irrigation water to collect or runoff and pose a hazard to livestock, wells, or adjoining crops
- 17 Allow foliage to dry before reentering the field.
- 18 Do not apply through sprinkler systems which deliver a low coefficient of uniformity such as certain water drive units

Use and Dosage Recommendations

ALFALFA: Use LORSBAN 4E to control the following pests at the dosages indicated by application as a broadcast, foliar spray

Aphids (suppression)

Alfalta blotch leafminer, altalta looper, alfalta weevil larvae and adults, armyworms, cutworms, Egyptian alfalta 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. Stubble spray may be applied to control leafhopper in the Northeast.

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. For best coverage when using ground application, a minimum of 20 gailons of water per acre with hollow cone nozzles is recommended. 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. For Egyptian alfalfa weevil control in California. apply the specified dosage in a minimum of 5 gallons of water per acre when larvae are actively feeding and populations reach 15 to 20 larvae per 180 degree sweep with a 15-inch diameter riet

LORSBAN 4E may also be applied through **sprinkler** irrigation systems as a posternergence 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 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 noninjurious under your current conditions of use. Some phytotoxic symptoms may be observed on young, tender rapidly growing alfalta when treated with LORSBAN 4E. Attalfa will outgrow the symptoms and no yield loss should be expected. This product is highly toxic to bees exposed to direct treatment on altalfa. Do not apply it 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 7 days after application of 15 pint of LORSBAN 4E per acre. within 14 days after application of 1 pint per acre, or within 21 days after application of rates above 1 pint per acre. Do not make more than 4 applications per year or apply more than once per crop cutting

ASPARAGUS: Use LORSBAN 4E to initrol cutworms, asparagus aphids, and asparagus beetles by application at the rate of 2 pints per acre. Mix the srecified dosage in sufficient water to ensure thorough coverage of treated plants and apply as a broadcast, foliar spray. For cutworms, it is preferable to apply LORSBAN 4E when the soil is moist and worms are active on or near the soil surface. Applications may be made during the fern stage for control of asparagus beetles and asparagus aphids when field counts or crop injury indicates that damaging pest populations are developing or present.

Restrictions: Do not make more than one preharvest application per season or apply within one day of harvest. Do not make more than two postharvest applications during the fern stage. Based on available residue data, the use of LORSBAN 4E on asparagus is limited to the Midwest and Pacific Northwest.

CHERRIES: Use LORSBAN 4E for the control of lesser peachtree borer, greater peachtree borer, and American plum borer by application as a trunk spray. Mix 1½ 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. Avoid contact with foliage in sweet cherries as premature leaf drop may result. Consult your State Agricultural Experiment Station or Extension Service Specialist for proper time to treat in your area. In addition, one of the three allowable applications ber year may be applied as a dormant spray for control of San Jose scale, peach twig borer, and climbing cutworms. For control of these pests tank mix ½ to 1 pint of LORSBAN 4E with 1 to 2 gallons of a petroleum oil recommended for dormant use in 100 gallons of water and spray the entire tree by application to runoff using 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

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Restrictions: Make only three applications per year. Do not apply within 6 days before harvest. Do not allow meat or dairy animals to graze in treated orchards.

CITRUS FRUITS: Use LORSBAN 4E insecticide at the rates indicated to control the following pests. Use the lower rates for light infestations and increase the dosage for heavier infestations

CROP		Dosage LORSE Spray Cov		Gailons of Spray Per Acre For Dilute Applications ³	Remarks
	PEST	Dilute (Pints 100 gal. water)	Dilute or Concentrate (Pints Acre)		
Grapetruit Lemons Oranges and Other Citrus Fruits	Aphids, Katydids Lepidopterous iarvae Cutworms Fruittree 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 Celiforne
	Citrus thrips', Mealy bugs' Scale insects? 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 toomotes 1 & 2)
	Citrus rust mite		4 to 7	100 to 700	Use directions apply in Fiolida, only

'In California apply as Outside Coverage (OC) using 6 to 12 pints of LORSBAN 4E per acre in 100 to 300 gallons of finished spray per acre

²In California apply as Thorough Coverage (TC) using 8 to 12 pints of LORSBAN 4E per acre. 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 or use less than ¹/₂ pint of LORSBAN 4E per 100 gallons of finished spray per acre. ³Gallonage per acre based on average size of mature.

trees Adjust to tree size per acre

For dilute applications, use the specified dosage per 100 gailons 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 dilute spray, using appropriate application coverage procedures. A petroleum spray oil recommended for use on citrus may be added to dilute spray mixtures only at a rate of up to 1.8 gallons per 100 gallons of water to improve control of aphids, mealybugs, scale insects, and thrips. Treat when insects become a problem or in accordance with the local spray schedule recommended by your State Extension Service Specialist. Do not apply when temperature exceeds 95°F LORSBAN 4E is highly toxic to bees exposed to direct treatment and should not be applied when bees are actively visiting the area. Apply late in evening or early morning to groves where honey bees are expected to visit.

LORSBAN 4E may be applied in tank mixtures with ethion, dicotol, or Vendex, See the Mixing Instructions section of this tabel for further instructions. Read and carefully follow all applicable directions, restrictions, and precautions on tabeling for the other products used in combination with LORSBAN 4E.

Precautions: Observe local use directions for tank mix combinations especially in regard to applications of LORSBAN 4E plus spray oil. Consult with a County Farm Advisor. County Agent, Extension Service personnel or Agricultural Commissioner for such information regarding a given locality. In California LORSBAN 4E should not be used in combination with spray oil when temperatures are expected to exceed 95°F the day of application or for several consecutive days thereafter. Do not apply when trees are stressed by drought or high temperature. LORSBAN 4E should not be tank mixed with Difolatan 80 Spriils as crop injury may occur

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 ivestock to graze in treated areas.

CITRUS ORCHARD FLOORS: Use LORSBAN 4E to control red imported fire ants and other ant species by applying the specified dose in 25 or more gallons of water with ground application equipment that will uniformly apply the spray to the orchard floor. To control foraging ants and suppress mounds, apply LORSBAN 4E to the orchard floor at the rate of ¾ to 1 quart per acre. Retreat as needed. For best insect control, uniform coverage of the orchard floor is necessary Do not apply where weed growth or other obstructions would impede uniform coverage of the orchard floor. Do not apply in tank mixtures with Evik herbicide. Foliar applications c⁴ LORSBAN 4E may be made in addition to the orchard floor treatments.

LORSBAN 4E may also be applied to citrus orchard floors through spinikler irrigation systems only if the system uniformly covers the soil surface at the base of the tree. For best results, use the recommended amount of LORSBAN 4E per acre. See the Sprinkler Irrigation section of this label for further information.

RESTRICTIONS: Do not apply more than 10 quarts of LORSBAN 4E per acre per season. Do not apply last treatment within 28 days before harvest. Do not allow livestock to graze in treated areas. In Florida, do not make more than 3 applications per season.

CRANBERRIES: Use LORSBAN 4E by application as a broadcast, foliar spray to control brown spanworm, cranberry fruitworm, cranberry weevil, cutworms, fireworms, and Sparganoithis 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 callons 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 a ter the winter flood has been removed. To avoid pesticide contamination of flood waters, make no applications while bogs are flooded.

LORSBAN 4E may also be applied through sprinkler irrigation systems to control the above listed 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 Sprinkler irrigation section of this label for further information.

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 beeile 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, seed corn maggots, seed corn beetle 4 pints per acre

Lesser cornstalk borer, corn rootworm larvae

6 pints per acre

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NOTE: For suppression of nematodes in North Carolina. South Carolina, and Virginia, apply 4 to 6 pints of LORSBAN 4E 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, Eradicane, Sutan, Lasso, Dual, and atrazine herbicides. See the Mixing instructions section of this label for further information. Read and carefully folloginal applicable directions, restrictions, and pre-autions on labeling for the other products used in combination with LORSBAN 4E.

Preplant, At-Plant or Preemergence Treatment in Conservation Tillage: Use LORSBAN 4E at the ollowing rates by application in sufficient water to surface trash and exposed soil

Cutworms. armyworms . 1 to 2 pints per acre. • •

Use recommended rate in not less than 20 gailons of wate per acre and apply as a broadcast spray using suitable power-operated ground spray equipment. Use higher rates for residual control.

LORSBAN 4E may also be applied in tank mixtures with nonpressure fertilizer solutions and/or with paraguat and Roundup. 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

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 ror is. 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

Grasshoopers 15 to 1 pint per acre

Armyworms, chinch bugs, aphids, corri rootworm adults, webworms, western bean cutworm, European corn borer (see note) 1 to 2 pints per acre.

Southwestern corn borer, corn earworm 11/2 to 2 pints per acre.

Cutworms, billbugs, lesser cornstalk borer, flea beetle adults, common stalk borer 2 to 3 pints per acre

Note: The recommended dosage will control silk clipping by corn rootworm adults. For European corn borer control, use 11/2 to 2 pints per acre when application is made with poweroperated ground and aerial equipment and 1 to 2 pints peracre when application is made through a sprinkler irrigation system

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 gailons 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 band over the row. On corn greater than 6 inches tail, apply the insecticide spray using drop nozzles directed to the base of the plant. Do not reduce the dosage for banded or directed applications. Concentrate the full labeled dosage rate in the treated zone. 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, webworm, western bean cutworm, armyworm, aphid. European and southwestern corn borer, grasshopper. esser constalk borer corn rootworm adult corn earworm and common stalk borer control, apply as a broadcast spray using either aerial (fixed-wing or helicopter) or poweroperated 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 LORSBAt: 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 webworm control, shallow incorporation using a rotary hoe or other suitable equipment immediately before or soon after treatment is necessary. 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 whorts. 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 herbicide or after complete burndown with paraguat herbicide (3 to 5 days). Do not use LORSBAN 4E in combination with the burndown herbicide for control of common stalk borer

LORSBAN 4E insecticide may also be applied through 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. LORSBAN 4E may also be applied through sprinkler irrigation systems. at the rate of 2 to 3 pints per acre to control corn rootworm. larvae. Time application to coincide with the appearance of the second instar larvae. Maintain vigorous tank agitation to assure uniformity of the application throughout the injection. period. Apply with enough water to wet the root zone to the depth control is needed. Under saturated soil conditions allow enough soil drying to occur so that an application using a minimum water rate will not produce runoff. Consult University Extension personnel or other experienced consultants to determine the need to treat and to aid in application timing. See the Sprinkler Irrigation section of this label for further information

Restrictions: Do not apply within 35 days before harvest of grair Do not apply more than a total of 15 pints of LORSBAN 4E pt. acre per season. Do not allow livestock to graze in treated areas nor harvest treated corn suage 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 fail 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 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 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 ivestock to graze in treated areas, nor feed treated silage fodder, or grain to meat or dairy animals within a beays after treatment. Do not use in conjunction with postplant broadcast, foliar applications of LORSBAN 16G granular insecticide COTTON: Use LORSBAN SE for control of the following pests in all states except Alizona and Califernia at the

dosages indicated ***** Cotton fleahopper plant bugs . (Lygus, Mirids) to 1 pm per acre.

Cotton aphid, fall armyworm grasshoppers thrus. yellow-striped armyworm ***** 1/2 to_1 pil 14 to 1 pint per acre • • pint per acre.

Spider mites

Beet armyworm, bollworms (Heliothis spp 🕻 🖕 boll weevil, cutworms, pink bollworm, sait marshe cateroillar 11/2 to 2 pints per acre

NOTE. The recommended dosage rate of 1/4 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, sait 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 leatperforator and spider mites.

Mix the required dosage with sufficient water to ensure thorough coverage of plants and apply using aerial or poweroperated ground spray equipment. For aerial application, use at least 1 gailon 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 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 Sprinkler trigation 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 freatment 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 ¼ 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
Hatch	1/16"	Hatch
3	3/32"	1
5	\$/32 ^{""}	11
6	7/16"	ItI
8	11/16"	IV
	Hatch 3 5 6	Hatch 1/16" 3 3/33" 5 9/33" 6 7/16" 8 11/16"

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	1 to 2 pints plus 1/s to 3/s pint	
plus Ambusti 2E LORSBAN 4E plus Pounce 3 2E	1 to 2 pints plus 1/2 to 1/2 pint	
LORSBAN 4E	1 to 2 pints	
plus Pydrin 2 4E	plus 1/4 to 1/3 pint	
LORSBAN 4E	1/2 to 1 pint	
plus Bolstar 6E	plus 3/2 to 11/2 pints	
LORSBAN 4E	1 pint	
plus methyl parathion'	plus 0 6 lb a i	
Plus EPN'	plus 0 6 lb a i	

'Use only emulsifiable formulations containing these active ingredients (a+)

Mix the tank mixture components in sufficient water to ensure thorough coverage of plants (at least 1 gailon 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.

In California and Arizona, use LORSBAN 4E at 1 to 2 pints per acre plus Monitor 4E at 1 to 2 pints per acre or LORSBAN 4E at 1 to 2 pints per acre plus Orthene 75S at 0 33 to 1 3 pounds per acre for control of armyworms, bollworms, cabbage looper, cotton aphids, cotton fleahopper, cutworms, grasshopper, omnivorous leatroiler, pink bollworm, plant bugs (*Lygus, Minds*), sattmarsh caterpillar, thrips, and whitefly (suppression:¹ Apply in 10 to 25 gailons of water per acre with ground spray quipment or in 5 to 10 gallons of water per acre with aerial spray equipment. Treat when field counts indicate that damaging insect populations are developing or present. For tank mixtures which include Monitor 4E, apply before 65 percent of the bolls have opened. Re-treat as necessary to maintain control.

Restrictions: Make no applications of these tank mixtures closer to harvest than the longest pre-han est 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 on treated forage to livestock. Workers entering the field within 48 hours after application should wear protective dothing

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 eee apply within 7 months of harvest. Based on available residue data, use of LORSBAN 4E on ligs is restricted to California.

GRAPES: Use LORSBAN 4E insecticide for control of grape root borer by application just before the pest emerges from the soil. Mix 4½ pints of LORSBAN 4E with 100 gailons 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 34 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 barer control, apply post-harvest when field counts present. Follow treatment with approximately 1 acre inch of sprinkler irrigation immediately after application to incorporate the insecticide into the soil. Make only one postharvest 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 gailons of water and apply as a coarse, low-pressure spray to give uniform coverage of tree trunks. Thoroughly wet all bark a eas from ground level to scatfold limbs. Do not allow spray to contact truit. Consult your State Agricultural Experiment Stations or Extension Service Specialists written recommendations for proper time to treat in your area

LORSBAN 4E may also be used as a preplant dip application for non-bearing peach trees at the equivalent application rate of 3 quarts per 100 gailons of water for control of peach tree borer. Dip trees several inches above the grafting bud scar and plant immediately or allow to dry before returning to storage. Do not allow peach trees to remain in contact with the dip solution.

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. Apply LORSBAN 4E at the rate of 11 fluid ounce per 1000 linear feet of row at an 18-inch row spacing. Use a minimum of 40 gailons of total drench per acre. Incorporate to a depth of 1 to 2 inches.

Restrictions: Do not make more than one application per year

PEANUTS: For suppression of wireworms, apply LORSBAN 4E at a rate of 4 pints per acre as a preplant broadcast spray to the soil surface followed by immediate soil incorporation to a depth of 3 to 4 inches. Use a minimum of 10 gallons of total spray per acre

Restrictions: Do not make more than one application per season. Do not harvest within 21 days after treatment. Do not feed treated peanut forage or hay to meat or dairy animals.

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. Do not reduce the dosage for banded or directed applications. Concentrate the full labeled dosage rate in the treated zone).

Webworms 1 pint per acre

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

European and southwestern corn borer 11/2 to 2 pints per acre

Mix the specified dosage in enough water to ensure thorough noverage 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 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 Sprinkler Irrigation section of this label for further information

Re itrictions: The treated crop is not to be used for grain, for ...ge, 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.

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 wooilybears, 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 ber acre and apply to the soil surface using suitable ground spray equipment. Equivalent rates of insecticide spray required per 100 teet of row for various row spacing are given in the accompanying table. For at-plant treatment 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 infurrow treatment. For postemergence rescue treatments, apply as a directed spray inta 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 decome a problem.

	.e	100 Fee	Spray Rec t of Row to w Spacing	H
Volume of Spray Per Acre	36*	32"	201	24"
10 Gallons 15 Gallons 20 Gallons	8 8 13 2 17 6	79 118 157	69 103 137	59 88 118

Foliar Treatment: Use LORSBAN 4E at the following rate by application in sufficient water to ensure thor such coverage of treated plants.

European corn borer s	southern green	
stink bug		2 pints per acre.
Bean leaf beetle, cutw	orms, corn earworm	saltmarsh

caterpillar and other woollybears 1 to 2 pints per acre

Mexican bean beetle, armyworms 1 to 1½ pints per acre. Velvetbean caterpillar, grassnoppers, 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; refreat 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 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 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 chiorpyrifos (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 or otherwise feed treated soybean forage, hay, and straw to meat or dairy animals.

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, wooilybears, 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

Q

Sunflower beetle larvae and adults, stem weëvil, sunflower moth, banded sunflower moth, woollybears, and seed weevil 1 to 112 pints per acre.

Grassnoppers

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 / to 10 days later, if newded. For stem weevil control optimal treatment time is with h 5 to 7 days after adult weevils beein 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 retreat

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 1½ 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 reduce the feeding damage caused by populations of *Conderus* wireworm. *Systena* flea beetle and the sweet potato flea beetle. Apply at the rate of 4 pints per acre as a broadcast (overail) spray to the soil surface followed by incorporation. Mix the specified dosage with enough water to obtain uniform coverage and apply as a coarse spray using suitable ground spray equipment. Incorporate the insecticide to a depth of 4 to 6 inches as soon as possible after application by using a rotary hoe, disc cultivator, or other suitable incorporation equipment. Plant the crop in the usual manner no later than 14 days after treatment (any delay in planting will reduce the length of time that LORSBAN 4E will protect against feeding damage). LORSBAN 4E will not control faise wireworms or white finge beetle or other grubs that attack sweet potatoes.

Restrictions: Do not make more than one application per season. Do not harvest within 125 days of treatment.

TOBACCO: Use LORSBAN 4E for preplant freatment to control larvae of cutworms. flea beetles, mole cnckets, 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. The application of LORSBAN 4E will also suppress the movement of imported fire ants into treated fields.

To control the above insects and low to moderate populations of rootknot nematodes in North Carolina, South Carolina, and Virginial use LORSBAN 4E at the rate of 5 quarts per acre. To control the above insects and moderate populations of rootknot nematodes in all tobacco growing regions luse LORSBAN 4E in a tank mix with Nemacur 3 at the rate of 2 quarts of LORSBAN 4E plus 4 quarts of Nemacur 3 per acre Read and carefully follow all applicable directions. restrictions and precautions on labeling for Nemacur 3 used in combination with LORSBAN 4E. Apply the specified dosage in not less than 10 gailons of water as a broadcast overall) spray to the soil surface 24 to 48 hours before bedding and transplanting. Immediately following application. incorporate into the soil to a depth of at least 4 inches using suitable equipment. Where the nematode species Meloidogyne arenana or M. javanica are present or high populations of M incognita, apply TELONE® II soil fumigant at the recommended label rate.

Restrictions: Do not make more than one application per season

TAEE FRUITS: Use LORSBAN 4E as a dormant or delayed dormant spray at the rates indicated to control the following insects on the crops listed. While LORSBAN 4E may be used without oil, oil is recommended for additional pest control.

Сгор	Insect	Dosage LORSBAN 4E
Apples	Rosy apple aphid San Jose scale Lygus Pandemis leafroller Climbing cutworms	
Pears	San Jose scale Climbing cutworms Pear psylla adults	1
Piums, Prunes	San Jose scale Mealy plum aphid Climbing cutworms Peach twig borer	12 to 1 pint
Almonds Peaches, Nectarines	San Jose scale Peach twig borer Climbing cutworms	1

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. (SEE PRECAUTIONS FOR USE IN CALIFORNIA.) 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.

Precautions: Because cold or dry conditions may cause LORSBAN 4E plus oil sprays to infuse 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 Additional Precautions Specific to California; Use a minimum of 250 gallons of total spray volume per acre. Do not use more than 4 pints of LORSBAN 4E per acre. Do not use more than 4 gallons of spray oil per acre on almonds, peaches, or nectarines. Do not use any adjuvants or surfactants in archition to or as a substitute for a petroleum spray oil in a tank mix with LORSBAN 4E. Do not apply on almonds in the following counties in California. Butte, Colusa, Gtenn, Solano, Sutter, Tehama, Yolo, and Yuba

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

TREE NUTS: Use LORSBAN 4E 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 nut crops, mix the required dosage in sufficient water to allow for spray to runoff. For concentrate sprays, apply an equivalent amount of LORSBAN 4E per acre Treat when pests appear or in accordance with local conditions. To suppress pecan leaf scorch mite on pecans. use in a preventative program. For aerial application on pecans, apply 2 to 4 pints of LORSBAN 4E in 5 to 15 gailons of spray volume per acre. Insect control by aerial application may be less than control by ground application because of less coverage. For ant control on pecans, do not apply where weed growth or other obstructions would impede uniform coverage of the orchard floor. For best pecan Phylloxera. control, use 2 applications 7 to 10 days apart starting at bud swell and ending by early leaf expansion. Consult your State Agricultural Experiment Station, Certified Pest Control Advisor, or Extension Service specialist for specific use information in your area

Vegetables: Use LORSBAN 4E at the dosages indicated to control the pests listed in the follow To avoid phytotoxicity in vegetables, do not mix with other pesticide products or plants that are under extreme heat and drought stress.

Crop	Insects Controlled	Dosage LORSBAN 4E	Use Directions	Restrictions
Cauliflower	Root maggot	1.6 to 2.4 fl. oz. per 1000 linear ft. 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	Do not apply more tha of LORSBAN 4E to caul planted in 40 inch ro proportional amounts row spacings not to e
Broccoli, Brussels sprouts, Cabbage, Chinese cabbage, Collards, Kale, Kohlrabi, Turnips	Root maggot	1.6 to 2.75 fl. oz. per 1000 linear ft. of row	the row at planting time. Shallow incorporation is necessary. Placement be- hind the planter shoe and in front of the presswheel is recommended. 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 gal. of total spray per acre. Do not add any additional adjuvents, surfactants or spreader stickers. Do not apply as a foliage application.	Do not apply more tha pints of LORSBAN 4E p to broccoli, brussels cabbage, Chinese cabb collards, kale, kohlr turnips planted in 40 rows/more than 4-1/2 LORSBAN 4E per acre to crops in 20-inch rows rows per bed). Use p tional amounts for ot spacings not to excee pints of LORSBAN 4E p Do not make more than application per seaso apply within 30 days harvest.
Broccoli, Cabbage	Root aphid	1.2 fl. oz. per 1000 linear ft. of row for single row plantings, and 2.4 fl. oz. per 1000 linear ft. of row for double row plantings.	Apply LORSBAN 4E in a water emulsion or with liquid fertilizer injected as a sidedress on each side of the row after plants are established. Avoid mechanical damage to crop roots. Use a minimum of 15 gallons of total spray volume per acre.	
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Radishes	Root maggot	1.0 fl. oz. 1000 linear ft. of row	Apply the specified dosage as a water-based drerch in the seed furrows with the seed at planting time. Use a minimum of 40 gallons of total drench per acre.	Do not apply more than 5-1/2 pints of LORSBAN 4E per acre or make more than one application per season.
Rutabagas	Root maggot	1.6 to 3.3 ft. oz. per 1000 linear	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 volume per acre.	Do not apply mcre 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.

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riidents	Evesported bud moth Filbert aphid Filbert leatroller Filbertworm Obliquebanded leatroller Omniverous leattier Winter moth	3 to 4 pints per acre	
Walnuts	Codling moth Walnut scale	4 pints per acre	
Pecans	Black pecan aphic Hickory shuckworm Pecan leaf scorc mite (suppression)	2 pints per 100 gallon	Make no more than 5 applications per season Do not apply within 28 days of harvest. Do not allow livestock to graze in freated orchards. For dilute spray apply 200 to 600 gallons per acre
	Pecah nut case bearer Phylioxera spp Fail webworm Spittlebug	1 pint per 100 gailon	Make no applications of tank mixtures closer to harvest than the longest pre-harvest interval shown for any of the products in the tank mixture
	Fire ants and other ant species (orchard repr	2 pints per acre as a ground spray	
	Yellow pecan acr : complex	1 pint of LORSBAN 4E plus 2 ² 5 ounce of Pydrin 2 4E or 2 6 ounce of Cymbush 3E or 3 ounce of Ammo 2 5E per 100 gallon	

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

Caulitiower 16 to 2.4 fl oz per 1000 linear feet of row

Broccoli, Brussels Spiouts, Cabbage, Chinese Cabbage, Collards, Kale, Kohirabi,

Turnips 1+ to 2.75 flowper 1000 linear teet 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 precis 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 waterbased 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 follage application.

Restrictions: Do not apply more than 2 pints of CORSBAN 4E to cauillower planted in 40-inch rows. Use proportional amounts for other row spacings not to raceed 4 pints of LORSBAN 4E per acre. Do not apply more than 2.6 pints of LORSBAN 4E per acre to brocolii. Brussels sprouts. cabbage. Chinese cabbage: collards, kale, kohirabi, and turnips planted in 40-inch rows or more than 41/2 pints of LORSBAN 4E per acre to these crops in 20-inch rows for two rows per bed. Use proportional amounts for other row spacings of to exceed 41/2 pints of LORSBAN 4E per acre Do per make more than one application per season or apply inhin 30 days before harvest. **Radishes**

1 0 fl oz per 1000 linear teet 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 gailons of total drench per acre

Restrictions: Do not apply more than by pints of LORSBAN 4E per acre or make more than one application per season

Rutabagas

1.6 to 3.611 oz per 1000 linear feet of row

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

Restrictions: Do not apply more than 4½ pints of LORSBAN 4E per acre or make more than one application per season Do not use rutabaga loss 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

Storage: Store in original container in secured dry storage area. Prevent cross-contamination with other besticides and fertilizers. Do not store above 100°F for extended periods of time. Storage below 20°F may result in formation of crystals If product crystallizes, store at 50 to 70°F and agitate to redissolve crystals. If container is damaged or Spiil occurs, use product immediately or dispose of product and damaged container as indicated below.

11

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 for Refillable Containers: Replace the dry disconnect cap. if applicable, and seal all openings which have been opened during use. Return the empty container to a collection site designated by the Dow Chemical Company. If the container has been damaged and cannot be returned according to the recommended procedures, contact the Dow Chemical Customer Service Center at 1-800-258-1470 to obtain proper handling instructions.

Container Disposal for Non-Retitlable Containers: 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 acid local authorities or

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 lexpress or implied, extends to the use of this product contrary to label instructions lincluding conditions noted on the label, such as unfavorable temperatures, soil conditions, etc.), under abnormaconditions (such as excessive rainfail, drought, tornadoes, nurricanes, etc.) or under conditions not reasonably foreseeable to or beyond the control of sever

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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SPECIMEN LABEL 86-1417 DATE CODE N1189 REPLACES 86-1417 DATE CODE M689 DISCARD PREVIOUS SPECIMEN LABELS **REVISIONS INCLUDE**

- 1) REVISED CONTAINER DISPOSAL STATEMENTS TO INCLUDE REFILLABLE CONTAINERS
- 2) REVISED USE DIRECTIONS FOR PEANUTS

Special Local Need Registrations

General Information and Mixing Instructions: Use LORSBAN 4E by mixing with water to form an emulsion spray. To prepare the spray, start to fill the spray tank with 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 mixing and application to ensure uniformity of the spray mixture. Apply LORSBAN 4E with the amounts of water recommended in each SLN. LORSBAN 4E should not be tank mixed with pesticides. Surfactants, or fertilizer formulations unless prior use has shown the combination noninjurious under local conditions of use. Consult your Cooperative Agricultural Extension Service for additional information concerning control practices in your area.

CARROTS GROWN FOR SEED: For use only within Washington (EPA SLN No WA-850025) to control cutworms and lygus, apply LORSBAN 4E with the amounts of water recommended below. Consult your Cooperative Agricultural Extension Service for additional information concerning cutworms and lygus control practices in your area. Use LORSBAN 4E by application as a foliar, broadcast spray at the rate of 1 quart per acre. Mix the specified dosage in sufficient water to ensure thorough coverage of treated areas For aerial application use at least 5 gailons of water per acre. Make application after carrots have started to boil and when field counts or crop injury indicate that damaging pest populations are developing or present.

Restrictions: Do not allow livestock to graze in treated areas. Do not feed treated carrot cuttings or seed screenings to livestock

This product is highly toxic to bees exposed to direct treatment or residue on treated crops or weeds. Do not apply when bees are in the field. Application must be made after bees have ceased flying for the day. Consult your Cooperative Agricultural Extension Service for additional information concerning protection of pollinating bees.

CLOVER GROWN FOR SEED For use only within Oregon (EPA SLN No. OR-850032) to control garden symphylans. armyworms, cutworms, aphids, weevils, lygus and spittlebugs, apply LORSBAN 4E with the amounts of water recommended below. Consult your Cooperative Agricultural Extension Service for additional information concerning garden symphylan, armyworm, cutworm, aphid, weevil lygus, and spittlebug control practices in your area. For garden symphylari control use LORSBAN 4E as a preplant, broadcast application to soil surfaces at the rate of 2 quarts per acre. Mix the specified dosage in at least 10 gallons of water per acre to ensure thorough coverage of the treated soil. 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. For established plantings, apply LORSBAN 4E at the rate of 2 quarts per acre as a broadcast, foliar spray before spring growth. Apply in at least 40 gallons of water to ensure thorough coverage and penetration. Incorporate to a depth of 2 to 4 inches using a disc or other suitable equipment. For armyworm. cutworm, weevil, lygus and spittlebug control, use LORSBAN 4E as a broadcast, foliar application at the rate of 2 pints per acre. For aphid control, use LORSBAN 4E as a brundcast, foliar application at the rate of 1 to 2 pints per acre. 'Vix the specified dosage in sufficient water to ensure thorough coverage of treated areas. Treat when field counts or crop injury indicates that damaging pest populations are developing or present. For best cutworm control, soil should be moist and worms active on or near the soil surface at the time of treatment

Restrictions: Do not allow livestock to graze in treated areas. Do not feed treated clover cuttings or seed screenings to livestock or use hay for livestock bedding.

This product is highly toxic to bees exposed to direct treatment or residues on treated crops or weeds. Do not apply to clover in bloom. Evening or night time applications. when foragers are not present reduce exposure hazards Consult your Cooperative Agricultural Extension Service for additional information concerning protection of pollinating bees

FIELD AND SWEET CORN: For use only within Florida (sweet corn only) (EPA SLN No. FL-780046) and Georgia (EPA SLN No. GA-790019) to control beet armyworms, fail armyworm, and corn earworm larvae and Colorado (sweet corn only) (EPA SLN No. CO-810017). Maryland (sweet corn onlyl (EPA SLN No. MD-840004) New Jersey (sweet corn. only) (EPA SLN No. NJ-840008). Pennsylvania (sweet corn only) (EPA SLN No. PA-840008), and Delaware (sweet corn only) (EPA SLN No. DE-840003) to control armyworms and corn earworm larvae, use 1 pint of LORSBAN 4E in sufficient water to ensure thorough coverage of plants and apply using either aerial (fixed-wing or helicopter) or power-operated ground spray equipment. For aerial application use at least 3 gallons of water per acre. Treat when field counts indicate that worms are or may become a problem. Repeat the application as needed, but do not exceed 13 applications per crop season

Restrictions: Do not treat within 7 days before harvest. Do not allow livestock to graze in treated areas. Do not feed treated corn silage, torage, or fodder to meat or dairy animals

For use only within **Florida** (field and sweet corn grown only for planting seed) (EPA SLN No. FL-770025) to control beet armyworm fall armyworm, and corn earworm, use 1 to 2 pints of LORSBAN 4E per acre in sufficient water to ensure thorough coverage of plants and apply using either aerial (fixed-wing cr helicopter) or power-operated ground spray equipment. For aerial application use at least 3 gallons of water per acre. Treat when field counts indicate that worms are or may become a problem. Repeat the application as needed

Restrictions: Apply only to corn to be harvested for seed. Do not allow livestock to graze in treated areas. Do not feed treated corn grain, silage, or forage to meat or dairy animals

COTTON: For use only within Alabama (EPA SLN No AL-850003) used alone or in tank mixtures with pyrethroid insecticides is recommended for control and suppression of aphids, fail armyworm, and spider mites infesting cotton. Use LORSBAN 4E at a rate of 1/2 to 1 pint per acre and pyrethroid insecticides at the dosage rate shown on their product labels Mix the required dosage of LORSBAN 4E or LORSBAN 4E and pyrethroid insecticide in sufficient cottonseed oil or soybean oil to give a finished spray volume of 1 quart per acre Apply a minimum of 1 quart of spray per acre with aircraft calibrated to give adequate coverage of plants. If the aircraft is calibrated to deliver higher volumes, use emulsifiable vegetable oil at a rate of 1 pint per acre with the above dosage of insecticide and add enough water for 2 gallons of finished spray per acre. Treat when field count indicate damaging insect populations are developing or present. However, for fail armyworm control, use only as part of a regularly scheduled program (5 to 7 days apart)

Restriction::: 14uke 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.

For use only within **Arkansas** (EPA SLN No. AR-870001) to suppress infestations of plantbugs and fleahoppers and preserve populations of beneficial arthropods in cotton. Use LORSBAN 4E at the rate of ½ pint per acre. Mix with water to form an emulsion spray. Apply the specified dosage in sufficient water to ensure thorough coverage using aerial or ground spray equipment. Treat when field counts indicate damaging density levels of plantbugs or fleahoppers are present.

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

For use only within **Mississippi** (EPA SLN No. MS-840004) to control larvae of wireworms and cutworms, apply 2 pints of LORSBAN 4E per acre for wireworm control and 1 to 2 pints of LORSBAN 4E per acre for cutworm control in not less than 10 gallons of water in a 16 to 18 inch band over the row pilor to or at planting. Immediately following application incorporate the insecticide into the soil to a depth of 3 to 4 inches using suitable equipment.

Restrictions: Do not make more than one application per season

For use only within **Mississippi** (EPA SLN No. MS-830025) to control and suppress spider mites, use ¹/₂ to 1 pint of LORSBAN 4E per acre in tank mixtures with pyrethroid insecticides at the dosage rate shown on their product (abel) and sufficient cottonseed oil or soybean oil to give a finished spray volume of 1 quart per acre. Apply a minimum of 1 quart of spray per acre with aircraft calibrated to give adequate coverage of plants. Treat when field counts indicate damaging insect populations are developing or present.

Restrictions: Make no applications of these tank mixtures closer to harvest than the longest preharvest 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 freated forage to livestock.

GRAPES: For use only within **Michigan** (EPA SLN No MI-840002) and **Missouri** (EPA SLN No MO-870004) to control climbing cutworms use 1 quart of LORSBAN 4E per acre in a minimum of 25 gailons of water and apply as a prebloom, dilute, or concentrate spray LORSBAN 4E should not be tank mixed with pesticides surfactants, or fertilizer formulations unless prior use has shown the combination noninjurious under your conditions of use. Consult your State Agricultural Station or Extension Service Specialist for proper time to treat in your area

Restrictions: Do not make more than one application per season. Do not use in conjunction with a soil surface spray application of LORSBAN 4E for grape root borer control

For use only within **Tennessee** (EPA SLN No. TN-880002) and **Georgia** (EPA SLN No. GA-860001) to control grape root borer by split soil applications mix 214 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. Make the first application before the pest emerges (at least 35 days prior to harvest) followed by a second application after harvest. Consult with local extension entomologists for optimum application timing based on pest emergence

Restrictions: Do not make more than 2 applications per season or apply within 35 days before harvest

NON-BEARING GRAPES: For use only within Idaho (EPA SLN No. ID-820018) Oregon (EPA SLN No. OR-820001) and Washington (EPA SLN No. WA-810036) to control cutworms, apply 1 quart of LORSBAN 4E per acre as a broadcast spray using either aerial or power-operative ground spray equipment. For aerial application use at least three gallons of spray per acre. If sprinkler irrigation is available, apply ½ to ½ inch of water after application to help incorporate the material. Treat when cutworms first become active and when field counts indicate damaging insect populations are developing or present. Retreat as necessary to maintain control. Consult your State Agricultural Experiment Station or Extension Service specialist for additional information concerning cutworm control practices in your area.

Restrictions: Do not harvest grapes in the same growing season as application

MINT: For use only within Oregon (EPA SLN No. OR-850034) by application as a preplant, broadcast spray to soil surfaces at the rate of 2 quarts per acre to control garden symphylans infesting mint. Mix the specified dosage in at least 10 gallons. of water per acre to ensure thorough coverage of treated soil On the same day of treatment incorporate the insecticide into the top 2 to 4 incres of soil using a disc, field cultivator, or equivalent equipment 5 I

Restrictions: Do not make more than one preplant, incorporation application in the spring. Do not use in conjunction with a broadcast, foliar spray application of LORSBAN 4E for cutworm control.

ONIONS (Dry Bulb): For use only within Michigan (EPA SLN No Mi-850006) for early season application on onions (dry bulb), to control Onion maggot. Use LORSBAN 4E at the rate of 1 quart per acre (equivalent to one pound of chiorpyrifos per acre) and apply as a directed spray to the base of onion seedlings or transplants during peak egg laying by the onion maggot adult. Proper timing of the insecticide application is essential for satisfactory control. Use a minimum of 100 gallons of total spray per acre for thorough wetting of the soil at the base of the plants

Restrictions: Do not make more than one directed spray application if LORSBAN 4E or LORSBAN 15G were used at planting. Do not use within 60 days of harvest or apply more than 2 pounds of chlorpyrifos per acre per growing season

PEANUTS: For use only within GEORGIA (EPA SEN No GA-870006) use LORSBAN 4E at the rate of 4 pints per acre to suppress wireworms. Apply the specified dosage in not less than 10 gallons of water as a preplant broadcast spray to the soil surface using suitable power-operated ground application equipment. Immediately following application incorporate the insecticide into the soil to a depth of 3 to 4 inches using suitable equipment.

Restrictions: Do not make more than one application per season. Do not apply a postplant directed spray following a preplant broadcast spray.

PERENNIAL GRASS SEED CROPS: For use only within Idaho (EPA SLN No. ID-830005) and Oregon (EPA SLN No. OR-830007) to control billbugs, cutworms, and aphids and Washington (EPA SLN No. WA-830009) to control cutworms and aphids, use 1 quart of LORSBAN 4E per acre in sufficient water to ensure good coverage and apply as a broadcast spray using power-operated ground application equipment. For improved results, the thatch should be moist at the time of application and the insecticide washed into the thatch immediately after application. If sprinkler irrigation is available, apply 1/4 to 1/2 inch of water after application to help incorporate the material. Otherwise, apply to early morning dew-covered fields or during or immediately following a light rain. For billbug control, apply in early April when adult billbugs are active. For cutworm control, apply in either spring. or fall when larvae or larval damage first appear. Fall applications should follow sufficient irrigation and or rainfall Heavy carbon residue from field burning will prevent penetration of LORSBAN 4E into the plant crown where the insects feed. Retreat as necessary to maintain control. To control aphids apply 1 to 2 pts of LORSBAN 4E per acre as a broadcast spray using power-operated ground application equipment. Treat as colonies begin forming before heading. Consult your Cooperative Agricultural Extension Service for additional information concerning billbug, cutworm and aphid control practices in your area. This product is highly toxic to bees exposed to direct treatment or residues on treated crops or weeds. Protective information may be obtained from your Cooperative Agricultural Extension Service

Restrictions: Apply only to perennial grass seed crops. Do not allow livestock to graze in treated areas. Do not feed treated grass cuttings or seed screenings to livestock nor use hay for livestock bedding.

For use only within South Dakota (EPA SLN No SD-870006) to control billbugs and cutworms infesting perennial grass and seed crops. Apply 1 quart of LORSBAN 4E per acre as a broadcast spray using power-operated ground application equipment. Apply LORSBAN 4E with





enough water to ensure good coverage. For best results, use 20 gpa of spray mixture. For improved results, the thatch should be moist at the time of application and the insecticide washed into the thatch immediately after application. If sprinkler irrigation is available, apply 14 to 15 inch of water after application to help incorporate the material. Otherwise apply to early morning dew-covered fields or during or immediately following a 'light rain. For billbug control, apply n early April when adult billbugs are active. For cutworm control apply in either spring or fail when larvae or larval damage first appear. Fall applications should follow sufficient rrigation and or rainfall. Heavy carbon residue from field burning will prevent penetration of LORSBAN 4E into the plant crown where the insects feed. Refreat as necessary () maintain control. To control aphids, apply 1 to 2 pts of LORSBAN 4E per acre as a broadcast splay using poweroperated ground application equipment. Treat as colonies begin forming before heading. Consult your Cooperative Agricultural Extension Service for additional information concerning billbug, cutworm, and aphid control practices in your area

For aerial application, follow above dosage recommendations and use two to five gallons of water per acre. Control may be reduced at low spray volumes under high temperature and wind conditions

Restrictions: Apply only to perennial grass seed crops. Do not allow livestock to graze in treated areas. Do not feed treated grass cuttings or seed screenings to livestock nor use hay for livestock bedding.

RADISHES GROWN FOR SEED: For use only within Oregon (EPA SLN No. OR-850031) use LORSBAN 4E as a preplant, broadcast application to soil surface to control garden symphylan at the rate of 2 quarts per acre. Mix the specified dosage in at least 10 gallons of water per acre to ensure thorough coverage of the treated soil. On the same day of treatment, incorporate the herbicide into the top 2 to 4 inches of soil using a disc, field cultivator, or equivalent equipment.

For **cutworm control**, use LORSBAN 4E as a broadcast application to soil surface at the rate of 1 guart per acre. Mix the specified dosage in at least 10 gallons of water per acre to ensure thorough coverage of treated soil. Treat in the spring when cutworm larvae begin to appear. 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 allow livestock to graze in treated areas. Do not feed treated radish cuttings or seed screenings to livestock

This product is highly toxic to bees exposed to direct treatment or residue on treated crops or weeds. Do not apply to radishes in bloom. Evening or night time applications when foragers are not present in the fields reduce exposure hazards. Consult your Cooperative Agricultural Extension. Service for additional information concerning protection of pollinating bees.

STRAWBERRIES: For use only within Idaho (EPA SLN No ID-830028). Oregon (EPA SLN No OR-830017), and Washington (EPA SLN No WA-830033) to control garden symphylans, use 2 guarts of LORSBAN 4E per acre with enough water to ensure good coverage of the soil surface and apply pre-plant as a broadcast spray to the soil surface using suitable power-operated ground application 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 should not be tank mixed with pesticides, surfactants, or fertilizer formulations unless prior use has shown the combination noninjurious under local conditions of use. Consult your Cooperative Agricultural Extension Service for additional information concerning garden symphylan control practices in your area

Restrictions: Apply only as a soil pre-plant incorporation application in the spring for protection of strawberries the following year. For use only within **Oregon** (EPA SLN No. OR-840021) to control strawberry crown moth apply 1 quart of LORSBAN 4E per acre as a directed spray to crowns of strawberry plants immediately after harvest and after plants are topped Apply in a minimum of 100 gallons of spray per acre. **Do not** sprinkle irrigate for one week following application. A second application may be required two to two and one half weeks later. Phytotoxicity may occur when LORSBAN 4E is applied to plants experiencing high temperatures and water stress. LORSBAN 4E should not be tank mixed with pesticides, surfactants, or fertilizer formulations unless prior use has shown the combination noninjurious under local conditions Consult your Cooperative Agricultural Extension Service for additional information concerning strawberry crown moth control practices in your area.

Restrictions: Use postharvest only. Do not make more than two applications per year.

SUGAR BEETS GROWN FOR SEED: For use only within Idaho (EPA SLN No. ID-830021) and Oregon (EPA SLN No OR-830018) to control garden symphylans, use 2 quarts of LORSBAN 4E per acre with enough water to ensure good coverage of the soil surface and apply pre-plant as a broadcast spray to the soil surface using suitable poweroperated ground application equipment LORSBAN 4E should not be tank mixed with pesticides surfactants, or fertilizer formulations unless prior use has shown the combination noninjurious under local conditions of use Consult your Cooperative Agricultural Extension Service for additional information concerning garden symphylan control practices in your area

Restrictions: Apply only as a soil pre-plant incorporation application in the fall for protection of sugar beets the following year

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REVISIONS INCLUDE: 1) REVISED CONTAINER DISPOSAL STATEMENTS TO INCLUDE REFILLABLE CONTAINERS 2) REVISED USE DIRECTIONS FOR PEANUTS

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