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ACCEPTED

JAN 26 1994

Under the Pederal Insection, Fungicide, and Redesticide Ret as amended, for the periodic registered under 1,2719-245

# RESTRICTED USE PESTICIDE

DUE TO ACUTE TOXICITY TO AVAIN AND AQUATIC ORGANISM.

Testal sale to and use only by certified Applicators or parsons under their direct supervision and only for those uses covered by the certified Application.



# Lorsban\* 4E-SG

For distribution and use only in Arlsone, Cellfornia, Colorado, Idaño, Kansee, Montene, Nebraska, New Mexico, Nevada, Oldahoma, Oregon, South Dekota, Taxas, Utah, Washington and Wyoming.

For control of aphide, including Russian wheat aphid and grasshoppers infeating wheat.

chtorpyrios: 0.0-disthyl-0-(3,5.6-trichloro-2-pyndinyl) phosphorothioste 40.7% inert ingredients. 59.3% Contains 4 pounds of chlorpyrios per gation.

Keep Out of Reach of Children WARNING AVISO:

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (if you do not understand the label. find semeone to explain it to you in detail.) Refer to tabel booklet for additional procesultanery information including Personal Protective Squipment (PPS) and Directions for Use including Agricultural Use Requirements and Storage and Disposal.

Hoteles: Read the entire label. Use only according to label directions. Before buying or using this product, read "Warranty Dissipation" and "Limitation of Remodics". In case of emergency endangaring health or the environment involving this product, call collect 517-636-4400.

Agricultural Chemical: Do not ship or store with food, feeds, drugs or clothing.

drugs or clothing.

(6) 45

EPA Reg. No. 62719-245

EPA Est. 464-Mi-1; 464-GA-1

Superscripts correspond to places 7 & 8 of lot number

40780

\*Trademerk of DowElenco DowElenco \* Indianapolis, IN 46388, U.S.A.

Insecticide







#### **Precautionary Statements**

#### Hazards to Humans and Domestic Animals Keep Out of Reach of Children WARNING AVISO:

Si usted no entiende la etiqueta, busque a alguen para que se la explique a usted en detalle. (if you do not understand the label, find someone to explain it to you in detail.)

May Be Fatal If Swellowed • Hermitel III Absorbed Through Skin • Causes Substantial But Temporary Eye Injury • Causes Skin Irritation

Avoid breething vapor or spray mist. Do not get in eyes, on skin, or on clothing.

Personal Protective Equipment (PPE)

Some materiels that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category H on an EPA chemical resistance category selections chart.

Applicators and other handlers must weer:

- . Long-sleeved shirt and long pants
- Chemical-resistant gloves such as Barrier Laminate or Viton
- . Shoes plus socks
- Protective eyeweer

Decard clothing and other absorbent materials their have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

#### User Safety Recommendations Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove ciothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- clothing
  Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

#### First Aid

An organophosphete peeticide/miticide.

If ewellowed: Do not induce vomiting. Contains aromatic petroleum solvent. Cell a physician or Poison Control Center immediately.

If in eyes: Figet with plenty of water for at least 15 minutes. Get medical attention.

If on aldn: Wash with plenty of soep and water. Get medical attention if imitation persets.

If inhaled: Remove to freeh air if effects occur. Get medical attention.

medical attention.

Note to physician: Chlorpyrrios is a cholinesterase inhibitor. Treat symptomatically. If exposed, pleame 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/protopern, 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 resouration.

#### **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 by cleaning of equipment or disposal of waste. This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming

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crops or weeds if bees are visiting the treatment area. Protective information may be obtained from your cooperative agricultural extension service.

Physical or Chemical Hazards
Combustible - Do not use or store near heat or open
flame. Do not out or weld container.

#### Directions for Use

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

Read all Directions for Use carefully before applying. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

For any requirements specific to your State or Tribe, consult the agency responsible for pasticide regulation.

Agricultural Use Requirements
Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nursenes, and greenhouses, and handlers of agricultural posticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exemptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralis
- Chemical-resistant gloves such as Barrier Laminute or Viton
- Shoes plus socks
- Protective syswear

Storage and Disposal

Storage: Store in original container in secured dry storage area. Prevent cross-contamination with other pasticides 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 spill occurs, use product immediately or dispose of product and damaged container as indicated below.

Peetfolde Disposel: Do not contaminate water, food

Peetfolde Disposals Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Peetfolde wastes are toxic, Improper disposal of excess peetfolde, spray muture, or insiste is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your state peetfolde or environmental control agency, or the hazardous waste representative at the nearest EPA Regional Office for guidance. Container Disposal for Refiliable 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 DowElanco. If the container has been damaged and cannot be returned according to the recommended procedures contact the DowElanco Customer Service Center at 1-800-258-3033 to obtain proper handling instructions.

Container Disposel for Non-Refillable 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 and local authorities.

Triple rines (or equivalent). Then puncture and dispose in a sentery lendfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.







#### **General Information**

Lorsban 46-SG insecticide forms an emulsion when diluted with water and is suitable for use in all conventional spray equipment. Consult your state experiment station or state extension service for proper timing of applications.

General Use Precautions

Do not use on turf or for structural past control. Do not formulate this product into other and use products.

Mixing Directions

To prepare the spray, add a portion of the required amount of water to the spray tank and with agitation add the Lorsban 4E-SG. Complete filting the tank with the balance of water needed. Maintain sufficient agitation during both mixing and application to ensure uniformity of the soray mixture.

Lorsban 4E-SG may also be used in tank mixtures with certain herbicides and/or with non-pressure fertilizer solutions as recommended under apacific crop use directions. Prepare tank mixtures in the same manner as recommended above for use of Lorsban 4E-SG alone. When tank mixtures of Lorsban 4E-SG and herbicides are involved, add wettable powders first, flowables second, and emulaifiable concentrates last. Where a fertilizer solution is involved, it is strongly recommended that a fertilizer peaticide compatibility agent such as Unite or Compat Se used. Maintain constant agitation during both mixing and application to ensure uniformity of the spray mixture. Do not allow spray mixtures to stand overheart.

Note: Test competibility of the intended tank mixture before adding Loraben 4E-SG to the apray or mix tank. Add proportionate amounts of each ingredient to a pint or quart jar, cap, shelle, and let set 15 minutes. Formation of precipitates that do not readily redisperse indicates an incompetible mixture that should not be used.

#### Sprinkler irrigation

Special Use Directions

The following use directions are to be followed when Lorsban 4E-SG is applied through schnikler impation systems. Thoroughly clean the injection system and tank of any fertilizer or chemical residues, and dispose of the residues according to state and federal laws. Flush the injector with soap and water. Determine the amount of insecticide needed to cover the desired acreage. Pump the required Lorsban 4E-SG into a steel tank, start mechanical or hydraulic agrittion, and add in order the non-emularisable oil and/or water. Continually agritte the moture containing Lorsban 4E-SG. 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 number 14 in "Special Use Precautions\*. The mixture containing Lorsban 4E-SG must be injected continuously and uniformly into the impation water line as the sprintder 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 impation and injector system to be thoroughly flushed clean before stopping the system.

**Special Use Precautions** 

The following use precautions will result in a safe and successful application of mixtures containing Loreben 4E-SG.

 Apply the product only through sprinkler impation 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 imgetion system.

2. Grop injury, leck of effectiveness, or illegal pesticide residues in the crop can result from nonuniform distribution of treated water.

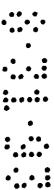
If you have questions about calibration, you should contact state extension service specialists, equipment manufacturers or other expects.

Do not connect an impation system (including greenhouse systems) used for pesticide application to a public water system.

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- 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 velve, and low pressure drain appropriately located on the impation pipeline to prevent water source contamin viion from backflow. Refer to the American Society of Agnicultural Engineer's Engineering Practice 40." for more
- 7. The posticide injection pipeline must cyrtain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection DUITIO.
- 8. The posticide 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 impation system is either automatically or manually shut down.
- The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- 10. The impation 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 posticide distribution is adversely affected.
- 11. Systems must use a metering pump, such as a positive displacement injection pump (e.g., disphragm 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 impation system at the point of injection. The pump must meet Section 675 for "Electrically Driven or Controlled Irrigation Mechines" NEC 70 and must contain Viton or Teffon seek.

- 12. To meure 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 impation line so that the turbulance 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 atuated between the tank and the injector pump.
- 14. In order to calibrate the imgabon system and injector to apply the muture containing Lorsben 4E-SG, determine the following: 1) Calculate the number of acres impated 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 flore of insecticide mixture needed to cover the desired acreege. Divide the total gations of insecticitie 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 milliters or ounces per minute. Calibrate the rijector pump with the system in operation at the desired irrigation rate. It is suggested that the rejector pump be califrated 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 impate nontarout an
- 16. Do not allow intigation water to collect or runoff and pose a hazard to livestock, wells, or adjoining crops.

  17. Allow follage 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.



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#### Approved Crops

#### WHEAT

Use and Dosage recommendations
Apply Lorsban 4E-SG at the rate of ½ to 1 pint per acre
(0.25 to 0.5 lb ai/acre) to control aphids (including at aphid) and grasshoppers. Mix the Hussan wheat aprior and grassroppers. Mix the required dosage with water and apply in a minimum of 2 gallons per acre finished spray volume. Apply using aeral (flued wing or helicopter) or power-operated ground spray equipment. Loraben 4E-SG may also be applied through aprinter-irrigation systems. Wanyone sees deed birds or fleh which may have been tilled by chlorpyrifos, please cell 1-800-258-3033.

#### Restrictions

- Do not make more than two applications per crop.
   Do not apply closer than 28 days before harvest.
   Do not allow livestock to graze or otherwise feed.
- ed forage to livestock within 14 days of application
- Do not feed strew from treated wheat within 28 days.
- Do not apply directly to bodies of water.
   Do not apply product where runoff is likely to occur to aquatic habitats (including lates, public reservors, rivers, permanent streams, marshes, natural ponds, estuanes or other natural waters).
- Do not apply when weather conditions favor drift or runoff from treated areas.

#### **Ground Application**

- For ground applications, the distance from treated es to aquetic habitats (including lakes, public reservoirs, rivers, permanent streams, marshes, natural ponds, estuaries or other natural waters) must be 30 feet or more.
- Do not make ground applications if wind speed is
- greater than 15 mph.

   Do not apply at apray boom pressures greater than

#### **Aerial Application**

- . Do not apply by air within 300 feet of aquatic habitats fincluding lakes, public reservoirs, rivers, permanent streams, marshes, natural ponds, estuanes or other netural waters).
- Do not make serial applications of Lorsban 4E-SG when wind speeds exceed 10 mph or when an atmospheric temperature inversion exists
- . Boom length should not exceen 75% of the wing span se height for aenal applications should be no greater than 10 feet above the crop canopy.

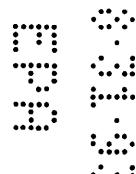
#### **Warranty Disclaimer**

DowElanco 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 dr one, subject to the inherent naits set forth below. JWELANCO MAKES NO OTHER EXPRESS C PELIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

#### Inherent Risks of Use

It is impossible to eliminate all risks as: use of this product. Crop injury, lack of performance, or other unintended consequences may result because sequences may result because of such factors as use of the product contrary to label instructions (including conditions noted on the label, such as unfavorable temperatures, soil conditions, etc.). abnormal conditions (such as excessive rainfall, drought, tornadoss, hurncanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of DowElanco or the seller. All such nais shall be assumed by Buyer.





#### **Limitation of Remedies**

The exclusive remedy for losses or clamages resulting from this product (including claims based on contract, negligence, strict liability, or other legal theories), shall be limited to, at DowElenco's election, one of the following:

(1) Refund of purchase price paid by buyer or user for

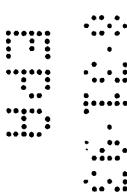
product bought, or (2) Replacement of amount of product used.

DowElanco shall not be liable for losses or damages resulting from handling or use of this product unless DowElanco is promptly notified of such loss or damage in writing. In no case shall DowElanco be liable for consequential or incidental damages or losses.

The terms of the Werranty Disclarmer above and this Limitation of Primedies cannot be varied by any written or verbal stair nents or agreements. No employee or sales agent or DowElanco or the seller is authorized to vary or exceed the terms of the Warranty Disclarmer or this Limitation of Remedies in any manner.

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### **DowElanco rsban**\* 4E-SG

For distribution and use only in Arizone, California, Colorado, Idahe, Kenese, Montene, Nebraska, New Mexico, Neveda, Oldahome, Oregon, South Dekota, Texas, Utah, Washington and Wyoming.

For control of splittle, including Russian wheat split and greechoppers infecting wheat.

#### **Precautionary Statements**

Hazards to Humans and **Domestic Animals** Keep Out of Reach of Children

#### **WARNING AVISO:**

Si usted he entrande is stigusts, busquin Folgusin partitive so le explique a ustad en details. (If you do not understand the label, find sommene to deplain it to you in detail.)

May Be Felsi II Dunisqued • Hymhil II Abserted Through Bits • Causes Bulmantial But Temperary Byo Injury • Couses Bits britishes

Avoid breathing vapor or spray mist. Do not get in eyes, on side, or on stability.

#### First Aid

An enginephasehete pertenda/mittelda.
If enginephasehete pertenda/mittelda.
If enginephasehete pertenda veritting. Contains arometic perteleum entvent. Cell a physician or Poson Control Center investibility.
If in openic Plash with plurity of water for at least 15 minutes. Get medical distantion.
If it is shift, Wash with plurity of soap and water. Get medical attention if invitation pursuits.
If inhabitis, Pluriery to fresh ar if effects occur. Get medical Note to physiolesic. Chicropyrilos is a cholinesterase whichor. Treat symptometically. If exposed, pleams and red blood cell cholinesterase tests may indicate agrillionince of exposure (biseting data are usefull. Altropinis, only by injustion, is the preferable anticlote. Durines, such as 2-PMM/protopetin, may be therepeated if used early; however, use only in conjunction with stropinis. In case of severe acute \_conjuncting, use entectie intrincipants where establishing an upon arrively and respiration.

Environmental Hazards
This pretode is tout to birds and widdle, and extremely toxic to fish and aquatic organisms. Do not apply directly to water. Drift and runoff from treased grees may be hazardous to aquatic organisms in adjacent aquatic other. Cover or incorporate split. Do not contentiate water by clearing of equipment or deposed of waste. This product is highly toxic to bess exposed to direct treatment or residue on blooming circles or weeds. Do not apply the product or residues on blooming circles or weeds if beas are visited to treatment eres. Protective information may be obtained from your cooperative agricultural estantiation service.

## Physical or Chemical Hazards Combustible - De not use or store near heat or ope De not eat or weld container.

Refer to label banklet for additional provautionary informationality Personal Protective Equipment (PPE) and Direct for Use Installing Agricultural Use Requirements and Store

Melder: Read the untire label. Use only according to label directions. Before buying or using this product, read "Warrenty Disetationer" and "Limitation of Remarks". In case of emergency endangement health or the environment stroking this product, call collect 517-636-4400.

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EPA Reg. No. 62719-245

(§ 45) EPA Est 464-Mi-1; 464-CA-1 Superscripts correspond to places 7 & 8 of lot number 40780 900-002080

•Tradement of DowElenco DowElence • Indianapolis, di 46388, U.S.A.

Insecticide

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