| WHITED STARE | U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs Registration Division (H7505C) | EPA Reg. Number: | Date of Issuance: |
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| | NOTICE OF PESTICIDE: | Term of Issuan | |
| J | <u>x</u> Registration Reregistration | Condition | nal |
| (under FIFRA, as a | mended) | Name of Pestic | ide Product: |
| | | Dorsan 41 | E-41 |
| • | Pamol, Inc. Avenue. Suite 2700 | | |
| be submitted to an | abeling differing in substance from that accepted d accepted by the Registration Division prior to u this product always refer to the above EPA registr | se of the label in co | - |
| | Iformation furnished by the registrant, the above n stered under the Federal Insecticide, Fungicide and | | reby |
| In order to protect cancel the registrate with the registrate | In no way to be construed as an endorsement or recom- the health and the environment, the Administrator, o ration of a pesticide in accordance with the Act. iion of a product under this Act is not to be const the name or to its use if it has been covered by ot | n his motion, may at The acceptance of an rued as giving the r | any time suspend or name in connection |
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EPA Form 8570-6

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Page Two 42519-18

3. Submit two (2) copies of your final printed labeling before you release the product for shipment. Refer to the A-79 enclosure for a further description of final printed labeling. 30

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If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records. If there are questions concerning this registration, contact Dani Daniel of my staff at 703 305-5409.

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Enclosure

(Base label):

Dorsan 4E-41

For control of various insects infesting certain field, fruit, nut, and vegetable crops.

Active Ingredient:

| chlorpyrifos: 0,0-diethyl-O-(3,5,6-trichloro-2-pyridinyl)phosphorothioate | 40.7% |
|---|--------|
| Other Ingredients | 59.3% |
| Total | 100.0% |

Contains 4 pounds of chlorpyrifos per gallon.

Precautionary Statements

Hazards to Humans and Domestic Animals 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 someone to explain it to you in detail.)

May Be Fatal If Swallowed • Harmful If Absorbed Through The 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.

Personal Protective Equipment (PPE)

Some materials 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 wear:

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

Discard clothing and other absorbent materials that 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:

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• Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

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- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clear(ciothing.
- 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.

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ACCEPTED with COMMENTS In EPA Letter Dated:

OCT 8 1998

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No.

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page 2

First Aid

An organophosphate insecticide/miticide

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 nedical attention if irritation persists.

If inhaled: Remove to fresh air if effects occur. Get nedical attention.

Note to physician: 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/protopam, 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.

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

Physical or Chemical Hazards

Do not use or store near heat or open flame. Do not cut or weld container.

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to label booklet under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

Refer to label booklet for additional precautionary information including Personal Protective Equipment (PPE), User Safety Recommendations and Directions for Use including Storage and Disposal.

Notice: Read the entire label. Use only according to abel directions. Before buying or using this product, read "Warranty Disclaimer" and "Limitation of Remedies" inside label booklet.

In case of emergency endangering health or the environment involving this product, call 1-800-424-9300. Agricultural Chemical: Do not ship or store with food. feeds, drugs or clothing.

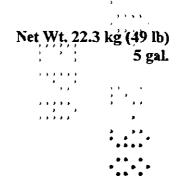
EPA Reg. No. 42519-XX

EPA Est. xxxxx-xx-xx

Luxembourg Pamol, Inc. • Memphis, TN 38137 U.S.A.

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Insecticide



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(Datapack cover):

Dorsan 4E-41

For control of various insects infesting certain field, fruit, nut, and vegetable crops.

Active Ingredient:

| chlorpyrifos: 0.0-diethyl-O-(3,5,6-trichloro-2-pyridinyl)phosphorothioate | 40.7% |
|---|---------|
| Inert Ingredients | .59.3% |
| Total | .100.0% |

Contains 4 pounds of chlorpyrifos per gallon.

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 someone to explain it to you in detail.)

Refer to inside of label booklet for additional precautionary information including Personal Protective Equipment (PPE) and Directions for Use including Agricultural Use Requirements and Storage and Disposal.

Notice: Read the entire latel. Use only according to label directions. Before buying or using this product, read "Warranty Disclaimer" and "Limitation of Remedies" inside label booklet.

In case of emergency endargering health or the environment involving this product, call 1-800-424-9300. Agricultural Chemical: Do not ship or store with food, feeds, drugs or clothing.

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EPA Reg. No. 42519-XX

EPA Est. xxxxx-xx-xx

Luxembourg Pamol, Inc. • Memphis, TN 38137 U.S.A.

Insecticide

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Net Wt. 22.3 kg (49 lb) 5 gal.

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Precautionary Statements

Hazards to Humans and Domestic Animals

WARNING

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 someone to explain it to you in detail.)

AVISO

May Be Fatal If Swallowed • Harmful If Absorbed Through The 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.

Personal Protective Equipment (PPE)

Some materials 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 wear:

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

Discard clothing and other absorbent materials that 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 landry.

User Safety Recommendations

Users should:

- · Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clubing.
- 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 Organophosphate insecticide / miticide

If swallowed: Do not induce vomiting. Contains aromatic petroleum solvent. Call a physician or Poison Centrol Center immediately.

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

If on skin: Wash with plenty of soap and water. Get medical attention if irritation persists.

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

Note to physician: Chlorpyrifos is a cholinesterase inhibitor. Treat symptomatically. If exposed, plasma and red blood cell cholinesterase tests may indicate significance of exposure (baseline data are useful). Attropine, only by injection, is the preferable antidote. Oximes, such as 2-PAM/protopam, may be therapeutic if used early; however, use only in conjunction with atropine. In case of severe acute poisoning, use antidote immediately ever establishing an open airway and respiration.

Environmental Hazards

This pesticide is toxic to birds and wildlife, and extremely toxic to fish and aquatic organisms. Do not apply firectly 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 crops or weeds if bees are visiting the treatment area. Protective information may be obtained from your cooperative agricultural extension service.

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Physical or Chemical Hazards

Combustible - Do not use or store near heat or open flame. Do not cut or weld container-

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Directions for Use

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. 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 pesticide 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, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions 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:

- Coveralls
- Chemical-resistant gloves such as Barrier Laminate or Viton
- Shoes plus socks
- Protective eyewear

Storage and Disposal

Do not contaminate water, food or feed by storage or disposal.

Storage: Store in original container in secured dry storage area. Prevent cross-contamination with other pesticides 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. **Pesticide Disposal:** Open dumping is prohibited. 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 Luxembourg Pamol, Inc.. If the container has been damaged and cannot be returned according to the recommended procedures contact the Luxembourg Pamol, Inc. Customer Service Center to obtain proper handling instructions.

Container Disposal 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.

or

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

General Information

Dorsan 4E-41 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 pest control. Do not formulate this product into other end use products. Attention: Do Not Cut or Weld Container.

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Mixing Directions

To prepare the spray, add a portion of the required amount of water to the spray tank and with the spray tank agitator operating add the Dorsan 4E-41. Complete filling the tank with the balance of water needed. Maintain sufficient agitation during both mixing and application to ensure uniformity of the spray mixture.

Dorsan 4E-41 may also be used in tank mixtures with certain herbicides and/or with non-pressure fertilizer solutions as recommended under specific crop use directions. Prepare tank mixtures in the same manner as recommended above for use of Dorsan 4E-41 alone. When tank mixtures of Dorsan 4E-41 and herbicides are involved, add wettable powders first, flowables second, and emulsifiable concentrates last. Where a fertilizer solution is involved, it is strongly recommended that a fertilizer pesticide compatibility agent such as Unite or Compex be used. Maintain constant agitation during both mixing and application to ensure uniformity of the spray mixture. Do not allow spray mixtures to stand overnight.

Note: Test compatibility of the intended tank mixture before adding Dorsan 4E-41 to the spray or mix tank. Add proportionate amounts of each ingredient to a pint or quart jar, cap, shake, and let set 15 minutes. Formation of precipitates that do not readily redisperse indicates an incompatible mixture that should not be used.

Sprinkler Irrigation

Dorsan 4E-41 may be applied by sprinkler irrigation for the following crop uses: alfalfa, citrus orchard floors, field corn, mint, sweet corn, cotton, cranberries, sorghum, and soybeans.

See the use sections for the individual crops for further application information. Do not apply this product to the above listed crops through any other type of irrigation system. Do not apply this product by chemigation to any other crop.

Special Use Directions

The following use directions are to be followed when Dorsan 4E-41 is applied through sprinkler irrigation systems. Thoroughly clean the injection system and tank of any fertilizer or chemical residues, and dispose of the residues according to state and federal laws. Flush the injector with soap and water. Determine the amount of insecticide needed to cover the desired acreage. Pump the required Dorsan 4E-41 into a steel tank, start mechanical or hydraulic agitation, and add in order the non-emulsifiable oil and/or water. Continually agitate the mixture containing Dorsan 4E-41. 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" on page (to be assigned). The mixture containing Dorsan 4E-41 must be injected continuously and uniformly into the irrigation water line as the sprinkler is moving. This procedure is necessary to deliver the desired rate per acre in a uniform manner. When the application is finished, allow the entire irrigation 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 Dorsan 4E-41.

- 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 back flow. 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.

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- 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.
- 11. 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 Dorsan 4E-41, 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. It 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.

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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

Alfalfa

Use Dorsan 4E-41 to control the following pests at the dosages indicated by application as a broadcast, foliar spray:

| Pests | Dorsan 4E-41 |
|---|-------------------|
| aphids (suppression) | 1/2 pint/acre |
| corn rootworm adults | 1/2 - 1 pint/acre |
| (spotted cucumber beetle) | |
| grasshoppers | |
| alfalfa blotch leaf miner | 1 - 2 pints/acre |
| alfalfa caterpillar | |
| alfalfa weevil larvae and adults | |
| armyworms | |
| blue alfalfa aphid | |
| cutworms | |
| Egyptian alfalfa weevil larvae and adults | |
| pea aphid | |
| plant bugs | |
| leathoppers | |
| spittlebugs | |

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 gallons 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° sweep with a 15-inch diameter net.

Dorsan 4E-41 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 Dorsan 4E-41 per acre. Maintain vigorous tank agitation to assure uniformity of the application throughout the injection period. See "Sprinkler Irrigation" on page (to be assigned) for further information.

Dorsan 4E-41 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 alfalfa when treated with Dorsan 4E-41. Alfalfa will outgrow the symptoms and no yield loss should be expected.

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

Restrictions

Do not cut or graze treated alfalfa within 7 days after application of 1/2 pint of Dorsan 4E-41 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

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Use Dorsan 4E-41 to control cutworms, asparagus aphids, and asparagus beetles by application at the ram of 2 pints per acre. Mix the specified dosage in sufficient water to ensure thorough coverage of treated plants and upply as a broadcast, foliar spray. For cutworms, it is preferable to apply Dorsan 4E-41 when the soil is moist and vorms 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 Dorsan 4E-41 on asparagus is limited to the Midwest and Pacific Northwest.

Cherries

Use Dorsan 4E-41 for the control of lesser peach tree borer, greater peach tree borer, and American plum borer by application as a trunk spray. Mix 1 1/2 to 3 quarts of Dorsan 4E-41 with 100 gallons of water and apply is 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 prenature 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 per 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 1.2 to 1 pint of Dorsan 4E-41 with 1 to 2 gallons of a petroleum oil recommended for dormant use in 100 gallons of water and stray 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 Dorsan 4E-41 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 Dorsan 4E-41 for severe infestations. Use oil as recommended by your State Agricultural Experiment Station or Extension Service Specialist.

Restrictions

Make only three applications per year. Do not apply within six days before harvest. Do not allow meat it dairy animals to graze in treated orchards.

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Christmas Trees (Nurseries and Plantations)

Use Dorsan 4E-41 at the rate indicated to control the following insects on the tree varieties listed.

Restrictions

Use Dorsan 4E-41 on tree plantations only in Connecticut, Maine, Maryland, Massachusetts, Michigan, New Hampshire, New Jersey, New York, North Carolina, Ohio, Oregon, Pennsylvania, South Carolina, Tennessee, Vermont, Virginia, Washington, and Wisconsin.

Do not allow livestock to graze in treated areas.

| Tree Variety | Insects Controlled | Dosage Dorsan 4E-41 | Remarks |
|--------------------|--------------------------------|------------------------|---|
| balsam fir | ants | 1 qt/acre | Do not treat plants under extreme |
| blue spruce | aphids | | heat and drought stress. |
| concolor fir | adelgids | | |
| Douglas fir | (cooley) | | Apply to foliage in sufficient water |
| eastern white pine | (eastern spruce gall) | ł | to ensure adequate coverage. |
| Fraser fir | European pine sawfly | | |
| grand fir | European pine shoot | | ¹ For effective control of adult |
| noble fir | moth | | spider mites if large numbers of |
| Scotch pine | grasshoppers | | eggs are present, apply a second |
| white spruce | gypsy moth | | spray 7 to 10 days after initial |
| | mites | | treatment to control newly |
| | (European red spider) | | hatched nymphs. |
| | (two spotted spider) | | 2 |
| | [except in WA & OR] | | ² For scale control apply when scale |
| | pales weevil (adult) | | crawlers are active. |
| | pine needle midge | | |
| | pine spittlebug | | } |
| | plant bugs | | |
| | spittlebugs | | 1 |
| | spruce budworm | ļ | j |
| | spruce needleminer | | |
| | scale ² | |) |
| | (pine needle) | | |
| | (pine tortoise) | 1 | ł i |
| | (spruce bud) | | 1 |
| [| (black pine) (striped pine) | [| (I |
| | pales weevil | 3 qt/100 gal | Apply as a cut stump drench. |
| | pares weevin | _ 5 dn 100 gai | Apply as a cut stump deficit. |

Citrus Fruits

Use Dorsan 4E-41 at the rates indicated according to the designated geographic area to control the following pests. Use the lower rates for light infestations and increase the dosage for heavier infestations.

A petroleum spray oil recommended for use on citrus trees 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.

Dorsan 4E-41 may be applied in tank mixtures with ethion, dicofol, Agri-Mek, or Vendex. See "Mixing Directions" for further instructions. Read and carefully follow all applicable directions, restrictions, and precautions on labeling for the other products used in combination with Dorsan 4E-41. Precautions

Observe local use directions for tank mix combinations especially in regard to applications of Dorsan 4E-41 plus spray oil. Consult with a county farm advisor, county agency, extension service personnel, agricultural commissioner, pest control advisor, or local Luxembourg Pamol, Inc. representative for such information regarding a given locality.

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Do not apply when trees are stressed by drought or high temperatures.

Dorsan 4E-41 should not be tank mixed with Difolatan 80 Sprills as crop injury may occur.

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Dorsan 4E-41 is highly toxic to bees exposed to direct treatment and should not be applied when bees are actively visiting the area. During the bloom period in California, apply from one hour after sunset until two hours before sunrise.

Restrictions

Do not apply more than two applications or more than 15 pints of Dorsan 4E-41 per acre per year. Do not make second foliar application within 30 days of the first application. Do not treat within 21 days of harvest for applications of up to 7 pints of Dorsan 4E-41 per acre nor within 35 days for application of rates above 7 pints per acre. Do not do any work involving contact with trees within 2 days after treatment. Do not allow livestock to graze in treated areas.

| Сгор | Geographic Location | Pest | Dosage of Dorsan 4E-41 (pt/acre) | Spray Volume (gal/acre) | Remarks |
|------|------------------------|---|---|--|--|
| | California Arizona | aphids katydids Lepidopterous larvae avocado leafroller cutworms fruit tree leafroller orange tortrix western tussock moth | 2 - 4 | ground: 100 - 750 aeriał: Min. of 15 | Do not use a spray concentration of Dorsan 4E-41 of less than 1/2 pt/100 gal of total volume. |
| | | scale insects black scale brown soft scale California red scale | 8 - 12 | 100 - 2400 | |
| | | thrips (suppression) mealybugs | 6 - 12 | 100 - 750 | |
| | | | vith spray oil on or for seve | when temperati eral consecutive | - |
| | Florida | Aphids grasshoppers ^a orange dogs mealybugs scale insects snow scale Florida red scale purple scale long scale chaff scale black scale brown soft scale | 2 - 7 | ground: 100 - 1400 aerial: Min. of 20 | Do not use a spray concentration of Dorsan 4E-41 of less than 1/2 pt/100 gal of water per acre. |
| | | citrus rust mites [•] Lubber grasshoppers mu | 4 - 7 | 100 - 700 led when they a | Do not use a spray concentration of Dorsan 4E-41 of less than 1 pt/100 gal of water per acre. re small (less than 1 inch in |
| | | length) by direct contact | | | |

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| grapefruit lemons oranges and other citrus fruit | Texas | aphids cutworms katydids mealybugs scale insects brown soft scale California red scale chaff scale | 4 - 7 | 200 - 700 | Do not use less that 1/2 pt of Dorsan 4E-43 per 100 gallons of water in dilute applications. |
|---|-------|---|-----------|-----------|--|
| | | citrus rust mites (suppression) | 4 - 7 | 200 - 700 | |
| small transplanted grapefruit, orange, and other citrus trees | Texas | aphids cutworms katydids mealybugs scale insects brown soft scale California red scale chaff scale | Max. of 7 | | Apply Dorsan 4E-4) If a rate of 1 fl oz'1 gal rf water with a backpark sprayer. Apply to runoff. |

Citrus Orchard Floors

Imported Fire Ants and other Ant Species

Use Dorsan 4E-41 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 Dorsan 4E-41 to the orchard floor at the rate of 3/4 to 1 quar, per acre. Re-treat 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 of Dorsan 4E-41 may be made in addition to the orchard floor treatments.

Dorsan 4E-41 may also be applied to citrus orchard floors through sprinkler 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 Dorsan 4E-41 per acre. See "Sprinkler Irrigation" on page (to be assigned) for further information.

Restrictions

Do not apply more than 10 quarts of Dorsan 4E-41 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 apply more than 3 quarts per season.

Cranberries

Use Dorsan 4E-41 by application as a broadcast, foliar spray to control brown spanworm, cranberry fruitworm, cranberry weevil, cutworms, fireworms, and Sparganothis fruitworms at the rate of 3 pints per acre. Mix the specified dosage in enough water to ensure thorough coverage and apply no less than 5 gallons of spray per acre when using aerial equipment or no less than 15 gallons of spray per acre when using ground equipment. For weevil control, apply once at flower bud development (late May, early June) and, if weevils are present, once after 100% bloom (early to mid July). For other insects, treat when field counts indicate damaging insect populations are developing or present. Apply only after the winter flood has been removed. To avoid pesticide contamination of flood waters, make no applications while bogs are flooded.

Dorsan 4E-41 may also be applied through sprinkler irrigation systems to control the above listed pests. For best results, use the recommended rate of Dorsan 4E-41 per acre. Maintain vigorous tank agitation to assure uniformity of the application throughout the injection period. See "Sprinkler Irrigation" on page (to be assigned) for further information.

Restrictions

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

Field Corn, Sweet Corn (Including Corn Grown for Seed)

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

Preplant Incorporation Treatment

Use Dorsan 4E-41 at the following rates by application in sufficient water to the soil surface and incorporate into the soil:

| Pests | Dorsan 4E-41 |
|------------------------|------------------|
| cutworms | 2 - 4 pints/acre |
| symphylans | } |
| wireworms | 4 pints/acre |
| billbugs | { |
| flea beetle larvae | } |
| grubs | } |
| seed corn maggots | 1 |
| seed corn beetle | 1 |
| lesser cornstalk borer | 6 pints/acre |
| corn rootworm larvae | |

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.

Dorsan 4E-41 may also be applied in tank mixtures with non-pressure fertilizer solutions and/or with Bladex, Eradicane, Sutan, Lasso, Dual, and atrazine herbicides. See "Mixing Directions" on page (to be assigned) for further information. Read and carefully follow all applicable directions, restrictions, and precautions on labeling for the other products used in combination with Dorsan 4E-41.

Preplant, At-Plant, or Preemergence Treatment in Conservation Tillage

Use Dorsan 4E-41 at the following rates by application in sufficient water to surface trash and exposed soil:

| Pests | Dorsan 4E-41 |
|-----------|------------------|
| cutworms | 1 - 2 pints/acre |
| armyworms | |

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

Dorsan 4E-41 may also be applied in tank mixtures with non-pressure fertilizer solutions and/or with paraquat and Roundup herbicide. See "Mixing Directions" on page (to be assigned) for further information. Read and carefully follow all applicable directions, restrictions, and precautions on labeling for the other products used in combination with Dorsan 4E-41.

Cultivation Time Treatment

Use Dorsan 4E-41 at the rate of 2 pints per acre to control corn rootworm larvae. Apply Dorsan 4E-41 as a water emulsion on both sides of the row at the base of the plants just ahead of the cultivator shovels. Cover the insecticide with soil around the brace roots. The best time to apply a basal treatment of a soil insecticide with cultivation is near the beginning of egg hatch. A cultivation application of Dorsan 4E-41 may be made in addition to an at planting application of Lorsban 15G insecticide.

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Postemergence Treatment

Use Dorsan 4E-41 at the following rate by application in sufficient water to ensure thorough coverage of treated plants:

| Pests | Dorsan 4E-41 | |
|-------------------------|----------------------|--|
| grasshoppers | 1/2 - 1 pint/acre | |
| armyworms | 1 - 2 pints/acre | |
| chinch bugs | | |
| aphids | 1 | |
| corn rootworm adults | ļ | |
| cutworms |] | |
| webworms | | |
| western bean cutworm | | |
| European corn borer | | |
| (see note) | | |
| southwestern corn borer | 1 1/2 - 2 pints/acre | |
| corn earworm | | |
| billbugs | 2 - 3 pints/acre | |
| lesser cornstalk borer | - | |
| flea beetle adults | | |
| common stalk borer | | |

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Note: The recommended dosage will control silk clipping by corn rootworm adults. For European corn borer control, use 1 1/2 to 2 pints per acre when application is made with power-operated ground and aerial equipment and 1 to 2 pints per acre when application is made through a sprinkler irrigation system. See text below for generation specific treatment information.

Treat when field counts indicate that pests are or may become a problem. For best billbug, chinch bug, and flea beetle control, apply with sufficient water to ensure a minimum spray volume of 20 to 40 gallons per acre and 40 psi using ground spray equipment. On corn less than 6 inches tall, apply the insecticide spray in a 9 to 12 inch wide band over the row. On corn greater than 6 inches tall, apply the insecticide spray using drop nozzles directed to the base of the plant. 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 Dorsan 4E-41 may be needed.

For cutworm, webworm, western bean cutworm, armyworm, aphid, European and southwestern corn borer, grasshopper, lesser cornstalk borer, corn rootworm adult, corn earworm, and common stalk borer control, apply as a broadcast spray using either aerial (fixed-wing or helicopter) or power-operated ground spray equipment. For aerial application use 2 to 5 gallons of spray per acre. Control may be reduced at low spray volumes under high temperature and wind conditions. For cutworms, it is preferable to apply Dorsan 4E-41 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. Apply as needed to maintain control. Use higher rates for larger worms or when heavy cutworm infestations are expected or present. Fields should be monitored for cutworm presence or damage. A second application may be required if damage or density levels exceed economic thresholds established for your area. 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% of the corn plants show pinhole feeding or leaf-feeding scars. For maximum control potential, ground applications of Dorsan 4E-41 should be directed into the corn leaf whorls. Scout fields within 5 days after application to determine if a second application is needed. University research indicates that achieving greater than 50% control of first-generation European borer with a single liquid insecticide treatment is highly dependent on timing, insecticide placement, and weather conditions. Treatment for control of second-generation European corn borer should be applied when field counts of egg masses indicate an infestation is present or about to develop. 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 paraquat herbicide (3 to 5 days). Do not use Dorsan 4E-41 in combination with the burndown herbicide for control of common stalk borer.

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Dorsan 4E-41 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 Dorsan 4E-41 in a tank mix with 2 pints per acre of non-emulsifiable oil. Maintain vigorous tank agitation to assure uniformity of the Dorsan 4E-41 plus of mixture throughout the injection period. Dorsan 4E-41 may also be applied through sprinkler irrigation systems at the rate of 2 to 3 pints per acre to control corr 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 "Sprinkler Irrigation" on page (to be assigned) for further information.

Restrictions

Do not apply within 35 days before harvest of grain. Do not apply more than a total of 15 pints of Dorsan 4E-41 per acre per season. Do not allow livestock to graze in treated areas nor harvest treated corn silage as feed for meat or dairy animals within 14 days after last treatment. Do not feed treated corn fodder to meat or dairy animals within 35 days after last treatment.

Sweet Corn Grown Only in Florida and Georgia

Use Dorsan 4E-41 to control infestations of beet armyworm, fall armyworm, and corn earworm by application as a broadcast, foFar 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 gallers 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.

Dorsen 4E-41 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 Dorsan 4E-41 in a tank mix with 2 pints per acre of non-emulsifiable oil. Maintain vigorous tank agitation to assure uniformity of the Dorsan 4E-41 plus of mixture throughout the injection period. See "Sprinkler Irrigation" on page (to be assigned) for further information.

Restrictions

Do not apply more than 22 pints of Dorsan 4E-41 per acre per season. Do not harvest corn ears, allow livestock to graze in treated areas, or feed treated silage, fodder, or grain to mest or dairy animals within 21 days after treatment. Do not use in conjunction with postplant broadcast, foliar applications of Lorsban 15G.

Cotton

Use Dorsan 4E-41 for control of the following pests in all states except Arizona and California at the dosages indicated:

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| Pests | Dorsan 4E-41 |
|----------------------------|----------------------|
| cotton fleahopper | 3/8 - 1 pint/acre |
| plant bugs (Lygus, Mirids) | |
| fall irmyworm | 1/2 - 1 pint/acre |
| grasshoppers | |
| thri ç s | |
| yellowstriped armyworm | |
| cotton aphid | 1/2 - 2 pints acre |
| spider mites | 1 pint/acre |
| beet armyworm | 1 1/2 - 2 pants/acre |
| cotizn budworm | |
| tobacco budworm | • |
| cutworms | |
| pink bollworm | |
| salt marsh caterpillar | |

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

Use Dorsan 4E-41 for control of the following pests in Arizona and California at the dosages indicated:

| Pests | Dorsan 4E-41 |
|---|------------------|
| armyworms cotton aphid cotton fleahopper Lygus salt marsh caterpillar thrips | 1 - 2 pints/acre |
| cotton bollworm tobacco budworm boll weevil cutworms pink bollworm | 2 pints/acre |

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

Mix the required dosage with sufficient water to ensure thorough coverage of plants and apply using aerial or power-operated ground spray equipment. For aerial application, use at least 1 gallon of spray per acre. Treat when field counts indicate damaging insect populations are developing or present. Re-treat as necessary to maintain control.

Dorsan 4E-41 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 Dorsan 4E-41 per acre. Maintain vigorous tank agitation to assure uniformity of the application throughout the injection period. See "Sprinkler Irrigation" on page (to be assigned) for further information.

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

For best results on bollworms and budworms, it is suggested that fields be scouled twice per week and treatments made when worms are 1/4 inch or less in length. The following table illustrates the size of worms in relation to age and stage of development (instar) as a guide to timing of treatments for best control.

From the table it can be seen that a scouting schedule of only once per week will not be satisfactory since the worms may be too big to control effectively by the seventh or eighth day.

| | | j | Age (Days) | Average Size | Instar |
|--|-------|----------------|------------|--------------|--------|
| Get the | worms | ····· | Hatch | 1/16" | Hatch |
| at this s | tage | ł | 3 | 3/32* | I |
| | | ł | 5 | 9/32" | II |
| | | [| 6 | 7/16" | III |
| | | } | 8 | 11/16" | IV |
| 1/16" 3/32" 9/32" 7/16" 11/16" | | I<- 11/16" ->1 | | | |

Timing for the Best Worm Control

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 Dorsan 4E-41 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.

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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 to 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 to 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 to 60 psi with a droplet size of 100 to 200 microns.

Restrictions

Do not apply within 14 days before harvest or make more than 6 applications per season. Do not allow livestock to graze in treated areas. Do not feed gin trash or treated forage to livestock.

Figs

Use Dorsan 4E-41 at the rate of 2 quarts per acre for control of dried fruit beetle by application in sufficient water to the soil surface followed by incorporation into the top 3 inches of soil. Apply to fig orchard soil as a dormant application in late winter prior to beetle emergence and prior to leaf formation.

Restrictions

Make only one application per year. Do not apply within 7 months of harvest. Based on available residue data, use of Dorsan 4E-41 on figs is restricted to California.

Grapes

Use Dorsan 4E-41 for control of grape root borer by application just before the pest emerges from the soil. Mix 4 1/2 pints of Dorsan 4E-41 with 100 gallons of water and apply 2 quarts of the diluted spray mixture to the soil surface on a 15-square foot area around the base of each vine. Do not allow spray to contact fruit or foliage.

Restrictions

Do not make more than one application per season or apply within 35 days before harvest. Based upon available residue data, the use of Dorsan 4E-41 in grapes is restricted to states east of the Rocky Mountains.

Mint

Use Dorsan 4E-41 by application as a broadcast, foliar spray to control cutworms at the rate of 2 to 4 pints per acre and mint root borer at the rate of 4 pints per acre. Mix the specified dosage in water to give no less than 10 gallons of spray per acre and apply using ground spray equipment. For cutworm control, treat during May and June when field counts indicate damaging insect populations are developing or present. When larvae are less than 3/4 inch in length, use the 2-pint rate. When larvae are 3/4 inch or more in length, use the higher rate. Make only one application during the growing season. Do not apply within 90 days before harvest. For mint root borer control, apply postharvest when field counts indicate damaging insect populations are developing or present. Follow treatment with approximately 1 acre inch of sprinkler irrigation immediately after application to incorporate the insecticide into the soil. Make only one postharvest application per season.

Dorsan 4E-41 may also be applied through sprinkler irrigation systems as a postemergence broadcast application to control the above listed pests. For best results, use the recommended rate of Dorsan 4E-41 per acre. Maintain vigorous tank agitation to assure uniformity of the application throughout the injection period. See "Sprinkler Irrigation" on page (to be assigned) for further information.

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Nectarines, Peaches

Use Dorsan 4E-41 for the control of peach tree borers by application as a trunk spray before newly hatched borers enter the trees. Mix 3 quarts of Dorsan 4E-41 with 100 gallons of water and apply as a coarse, low-pressure spray to give uniform coverage of tree trunks. Thoroughly wet all bark areas from ground level to scaffold limbs. Do not allow spray to contact fruit. Consult your State Agricultural Experiment Station's or Extension Service Specialist's written recommendations for proper time to treat in your area.

Dorsan 4E-41 may also be used as a preplant dip application for non-bearing peach trees at the equivalent application rate of 3 quarts per 100 gallons 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 1 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 Dorsan 4E-41 to control onion maggot by application as an in-furrow drench. Apply Dorsan 4E-41 at the rate of 1.1 fluid ounce per 1,000 linear feet of row at an 18-inch row spacing. Use a minimum of 40 gallons of total drench per acre. Incorporate to a depth of 1 to 2 inches.

Restrictions

Do not make more than one application per year.

Peanuts

For suppression of wireworms, apply Dorsan 4E-41 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 of Dorsan 4E-41 per season. The combined total of preplant and postplant applications of Dorsan 4E-41 and Dorsan 15G must not exceed 4 pounds active ingredient per acre per season. Do not harvest within 21 days after treatment with Dorsan 4E-41. Do not feed peanut forage or hay to meat or dairy animals.

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Sorghum - Grain Sorghum (Milo)

Use Dorsan 4E-41 insecticide for control of the following pests at the dosages indicated:

| Pests | Dorsan 4E-41 | Specific Directions |
|--|----------------------|--|
| sorghum midge | 1/2 pint/acre | Apply when 30 to 50% of the seed heads are in bloom, repeat at 3-day intervals if mecessary. |
| grasshoppers yellow sugar cane aphids and other aphids | 1/2 - 1 pint/acre | |
| greenbug | 1/2 - 2 pints/acre | For infestations of greenbug that are difficult to control, use a higher dose within the indicated rate range. |
| chinch bugs lesser cornst aik borer | 1 - 2 pints/acre | Apply as a directed spray toward the base of the plant using power-operated ground spray equipment with sufficient water to ensur- coverage of an 8 to 12 inch band centerez on the row. On plants less than 6 inches him apply an 8 to 12 inch band over the row. Do not reduce the dosage for banded or directed applications. Concentrate the full labelez dosage rate in the treated zone. |
| webworms | l pint/acre | |
| armyworms corn earworm cutworms | 1 - 2 pints/acre | |
| European and Southwestern corn borer | 1 1/2 - 2 pints/acre | |
| corn earworm | 2 pints/acre | |

Mix the specified dosage in enough water to ensure thorough coverage and apply using suitable aeria or ground spray equipment. To minimize chemical injury, do not apply Dorsan 4E-41 to drought stressed grain wrghum within 3 days following irrigation or rain except where the product is applied in irrigation water.

Dorsan 4E-41 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 Dorsan 4E-41 per acre. Maintain vigorous tank agitation to assure uniformity of the application throughout the injection period. See "Sprinkler Irrigation" on page (to be assigned) for further information.

Precaution: Be aware that sorghum lines used in seed production fields may be more sensitive to chanical injury. Susceptible inbred lines or hybrids are likely to be at greater risk of yield-reducing chemical injury wien sprayed at the higher rates of application. Do not apply more than 1 pint per acre of Dorsan 4E-41 to seed sorghum if the additional risk of crop injury is unacceptable.

Restrictions

The treated crop is not to be used for grain, forage, fodder, hay, or silage within 30 days after application of 1 pint of Dorsan 4E-41 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 Dorsan 4E-41 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 woollybears, southern green stink bug, spider mites, and velvetbean caterpillar.

Soil Treatment

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Use Dorsan 4E-41 at the rate of 1 to 2 pints per acre to control cutworms and lesser cornstalk borer. Nix the specified dosage in a minimum of 10 gallons of spray per acre and apply to the soil surface using suitable ground spray equipment. Equivalent rates of insecticide spray required per 100 feet of row for various row spicing are

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

| | Per 100 | es of Spray Re Feet or Row s Row Spacin | for | |
|-----------------------------|---------|---|------|------|
| Volume of Spray Per Acre | 36'' | 32" | 28'' | 24" |
| 10 gallons | 8.8 | 7.9 | 6.9 | 5.9 |
| 15 gallons | 13.2 | 11.8 | 10.3 | 8.8 |
| 20 gallons | 17.6 | 15.7 | 13.7 | 11.8 |

Foliar Treatment

Use Dorsan 4E-41 at the following rate by application in sufficient water to ensure thorough coverage of treated plants:

| Pests | Dorsan 4E-41 |
|---|----------------------|
| European corn borer southern green stink bug | 2 pints/acre |
| bean leaf beetle cutworms corn earworm saltmarsh caterpillar and other woolly bears | 1 - 2 pints/acre |
| Mexican bean beetle armyworms | 1 - 1 1/2 pints/acre |
| velvetbean caterpillar grasshoppers green cloverworm spider mites | 1/2 - 1 pint/acre |

Apply as a broadcast spray using either aerial or ground equipment when field counts indicate damaging insect populations are developing or present; re-treat 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.

Dorsan 4E-41 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 Dorsan 4E-41 per acre. Maintain vigorous tank agitation to assure uniformity of the application throughout the injection period. See "Sprinkler Irrigation" on page (to be assigned) for further information.

Restrictions

Do not apply more than 6 pints of Dorsan 4E-41 per acre or 3 pounds of chlorpyrifos (active ingredient) per acre per season. Do not apply last treatment within 28 days before harvest nor apply last two treatments closer than 14 days apart. Do not allow livestock to graze in treated areas or otherwise feed treated soybean forage, hay, and straw to meat or dairy animals.

Strawberries

Use Dorsan 4E-41 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. Dorsan 4E-41 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 Dorsan 4E-41 is applied to strawberries experiencing high temperature and drought stress.

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Restrictions

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

Sunflowers

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

Preplant Incorporation Treatment

Use Dorsan 4E-41 at the following rates by application in sufficient water to the soil surface and incorporate into the soil:

| Pests | Dorsan 4E-41 |
|----------|------------------|
| cutworms | 2 - 4 pints/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 Dorsan 4E-41 for control of the following pests at the dosage indicated by application in sufficient water to ensure thorough coverage of treated plants:

| Pests | Dorsan 4E-41 |
|------------------------------------|----------------------|
| cutworms | 2 - 3 pints/acre |
| seed weevil | 1 - 1 1/2 pints/acre |
| sunflower beetle larvae and adults | - |
| stem weevil | |
| sunflower moth | |
| banded sunflower moth | |
| woolly bears | |
| grasshoppers | l pint/acre |

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

Restrictions

Do not apply more than 9 pints of Dorsan 4E-41 per acre per season. Do not apply within 42 days before harvest. Do not allow livestock to graze in treated areas.

Sugar Beets

Soil Treatment (At Planting or Preplant Incorporated)

To reduce feeding damage from early season insects such as cutworms, use Dorsan 4E-41 at planting or as a preplant treatment and incorporate to a depth of 1 to 2 inches. Do not apply as an in-furrow treatment. Apply 1 pint of Dorsan 4E-41 per planted acre to a 10-inch wide band centered on the row for furrows 30 inches apart. (For rows 30 inches apart, this is equivalent to 9.2 fluid ounces of Dorsan 4E-41 per 10,000 feet of row). For other row widths, adjust the spray volume per planted acre in proportion to the area actually treated.

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Postemergence Treatment

Apply Dorsan 4E-41 as a broadcast or banded foliar spray. Treat when field counts indicate that damaging insect populations are or maybe a problem. Re-treat as necessary to maintain control of target insects.

Broadcast Application: Apply the specified **dos**age in a total spray volume of 2 to 5 gallons of water per acre using suitable aerial spray equipment or 10 to **30** gallons of water per acre when using power-operated ground equipment.

Band Application to control sugar beet root maggot: Apply 2 pints of Dorsan 4E-41 per acre on a broadcast basis, e.g. 2/3 pints/acre in a 7.5 inch band based on a 22 inch row spacing. For rows 22 inches apart, this is equivalent to 13.5 fluid ounces of Dorsan 4E-41 per 10,000 feet of row. For band application, do not apply less than 20 gallons of water per acre on a broadcast basis.

| Pests | Dorsan 4E-41 |
|---|----------------------|
| grasshopper' | 1/2 - 1 pint/acre |
| sugar beet root maggot adults (present at time of application) | 1 pint/acre |
| beet armyworms | 1 1/2 - 2 pints/acre |
| cutworms | 2 pints/acre |
| 'The lower rate will control young i | n ym phs. |

Restrictions:

Do not apply within 30 days of harvest of beet roots and tops. Do not apply more than a total of 8 pints of Dorsan 4E-41 on a broadcast basis, or make more than four applications per season. Do not allow livestock to graze in treated areas or harvest treated beet tops as feed for meat or dairy animals within 30 days of last treatment.

Sweet Potatoes

Use Dorsan 4E-41 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 (overall) spray to the soil surface followed by incorporation. Mix the specified **dos**age 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 Dorsan 4E-41 will protect against feeding damage). Dorsan 4E-41 will not control false wireworms or white fringe 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 Dorsan 4E-41 for preplant treatment to control larvae of cutworms, flea beetles, mole crickets, root maggots, and wireworms. Apply 2 to 3 quarts of Dorsan 4E-41 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 Dorsan 4E-41 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 Virginia, use Dorsan 4E-41 at the rate of 5 quarts per acre. To control the above insects and moderate populations of rootknot nematodes in all tobacco growing regions, use Dorsan 4E-41 in a tank mix with Nemacur 3 at the rate of 2 quarts of Dorsan 4E-41 plus 4 quarts of Nemacur 3 per acre. Read and carefully follow all applicable directions, restrictions, and precautions on labeling for Nemacur 3 nematicideused in combination with Dorsan 4E-41. Apply the specified dosage in not less than 10 gallons 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

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depth of at least 4 inches using suitable equipment. Where the nematode species Meloidogyne aremaria or M. javanica are present or high populations of M. incognita, apply Telone* II soil fumigant at the recommended label rate.

(Note: "Trademark of Luxembourg Pamol, Inc. (on bottom of page that Telone II is on)).

Before broadcast application of Dorsan 4E-41 onto existing beds, knock down beds to final shape for transplanting. Use of PTO-driven implements that will incorporate Dorsan 4E-41 to a depth of 4 inches is recommended.

Restrictions

Do not make more than one application per season.

Tree Fruits

Use Dorsan 4E-41 as a dormant or delayed dormant spray at the rates indicated to control the following insects on the crops listed. While Dorsan 4E-41 may be used without oil, oil is recommended to control additional pests such as European red mite.

| Сгор | Insect | Dorsan 4E-41 per 100 Gallons of Spray [†] | |
|--------------------------|---|---|--|
| apples | rosy apple aphid | | |
| | San Jose scale | | |
| | Lygus | | |
| 1 | pandemis leafroller | | |
| | climbing cutworms | | |
| | oblique banded leafroller | | |
| pears | San Jose scale | 1/2 - 1 pint | |
| | climbing cutworms | (Use a minimum of | |
| | pear psylla adults | 1 1/2 pints/acre) | |
| płums | San Jose scale | 1 | |
| prunes | mealy plum aphid | | |
| l | climbing cutworms | | |
| | peach twig borer | | |
| almonds | San Jose scale | | |
| peaches | peach twig borer | | |
| nectarines | climbing cutworms | | |
| ^T Based on 20 | [†] Based on 200 to 600 gallons per acre as a dilute spray | | |

For dilute sprays, 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 "Additional Precautions Specific to California" (below) for use in California).

For low volume (concentrate) sprays, less than 200 gallons of spray mixture per acre, use the same asmount of Dorsan 4E-41 as for a dilute spray and apply in a manner that will ensure thorough coverage of the trees. Use the higher dosage of Dorsan 4E-41 for severe infestations. Use oil as recommended by your State Agriculture Experiment Station or Extension Service Specialist.

Precautions

Because cold or dry conditions may cause Dorsan 4E-41 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. Do not use more than 4 pints of Dorsan 4E-41 per acre.

Additional Precautions Specific to California: Use a minimum of 250 gallons of total spray volume per acce. 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 addition to or as a substitute for a petroleum spray oil in a tank mix with Dorsan 4E-41. Do not apply on almonds in the following counties in California: Butte, Colusa, Glenn, Solano, Sutter, Tehama, Yolo, and Yuba.

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Restrictions

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

Tree Nuts

Use Dorsan 4E-41 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 Dorsan 4E-41 per acre. Treat when pests appear or in accordance with local conditions. Insect control by aerial application may be less than control by ground application because of less coverage. Consult your State Agricultural Experiment Station, certified Pest Control Advisor, or Extension Service Specialist for specific use information in your area.

Almonds, Filberts, Walnuts

Use Dorsan 4E-41 at the rates indicated to control the listed pests.

| Crop | Insects Controlled | Dosage Dorsan 4E-41 | Restrictions | |
|----------|---|------------------------|---|--|
| almonds | navel orangeworm peach twig borer San Jose scale | 4 pints/acre | Make no more than 3 foliar applications per season on almonds and filberts and no | |
| filberts | eye-spotted bud moth filbert aphid filbert leafroller filbert worm oblique-banded leafroller omnivorous leaftier | 3 - 4 pints/acre | more than 2 applications per season on walnuts Do not apply within 14 days of harvest. | |
| | winter moth | | Do not allow livestock to graze in | |
| walnuts | codling moth walnut scale | 4 pints/acre | treated orchards. | |

Pecans

Use Dorsan 4E-41 at the rates indicated to control the listed pests.

| Insects Controlled | Dosage of Dorsan 4E-41 (Dilute or Concentrate) | Remarks and Restrictions |
|--|---|--|
| pecan nut case bearer fall webworm | 1 1/2 - 4 pints/acre | Make no more than five applications per year. |
| Phylloxera spp. ¹ black pecan aphid hickory shuckworm ² pecan leaf scorch mite (suppression) ³ fire ants and other ant species ⁴ | 2 - 4 pints/acre | Do not apply within 28 days of harvest. Do not allow livestock to graze in treated orchards. Make no applications of tank mixtures closer to harvest than the longest preharvest interval shown for any of the products in the tank mixture. |
| yellow pecan aphid black margined aphid | 1 - 4 pints of Dorsan 4E-41 plus: 5.33 fl oz of Pydrin 2.4E, or 1.70 fl oz of Asana 1.9 EC, or 3.00 fl oz of Ammo 2.5 EC, or 2.56 fl oz of Cymbush 3E | For dilute applications with ground equipment use at least the minimum rate of Dorsan 4E-41 listed for the pest. Apply in 100 to 600 gallons of water per acre. For aerial applications use 5 to 15 gallons of water per acre. Note: With aerial application control may be reduced due to poor coverage. Up to 20 pints of Dorsan 4E-41 may be applied per acre per year. |

For best *Phylloxera* spp. control, make 2 applications at a 7 to 10 day interval using a minimum of 1.0 pint of Dorsan 4E-41 per acre starting at bud swell.

²For best results make two applications, 10 to 14 days apart.

³To suppress pecan leaf scorch mite, use a preventative program.

⁴For ant control, apply as an orchard floor spray. Do not apply where weed growth or other obstructions prevent uniform coverage of the orchard floor.

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Almond Orchard Floors

Use Dorsan 4E-41 to control Southern fire and pavement and by applying the specified dose with ground application equipment that will uniformly apply the spray to the orchard floor. Use when ant activity becomes evident within the orchard. Since worker ants cease most of their foraging activity at temperatures above 90°F, best results will be achieved with applications made at temperatures below 90°F at the time of application. Dosage of Dorsan 4E-41 and spray volume may vary depending on the irrigation method employed in the orchard as follows:

Ant Control in Sprinkler or Drip-irrigated Orchards

Apply Dorsan 4E-41 as a broadcast spray to the entire orchard floor using ground spray equipment at 4 to 8 pints per acre in 25 or more gallons of water. Use the high rate for heavy infestations and the low rate for light infestations. In orchards where ant activity is concentrated around the irrigation emitters, apply the high rate to a 6 to 8 foot band along the drip-irrigation line and the low rate to the rest of the orchard.

Ant Control in Flood-irrigated Orchards

Apply Dorsan 4E-41 at 4 to 8 pints per acre in 25 or more gallons of water to the entire orchard floor using ground spray equipment. Apply the high rate to heavily infested areas and the low rate to lightly infested areas. Where ant colonies are abundant only in the berm areas, apply Dorsan 4E-41 at 8 pints per treated acre in 50 or more gallons of water to a 6 to 10 foot band along the tree line (berm).

Do not apply where weed growth or other obstructions would impede uniform coverage of the orchard floor. Mow or chemically control weeds before the application of Dorsan 4E-41. Foliar applications of Dorsan 4E-41 may be made in addition to the orchard floor treatment.

Restrictions

Do not apply more than 16 pints of Dorsan 4E-41 per year to the orchard floor. Do not apply the last treatment within 14 days of harvest. Do not allow livestock to graze in treated orchards.

Vegetables

Use Dorsan 4E-41 at the dosages indicted to control the pests listed in the following table. To avoid phytotoxicity in vegetables, except Brussels sprouts, do not mix with other pesticide products or treat plants that are under extreme heat and drought stress.

| Crop | Insects Controlled | Dosage Dorsan 4E-41 | Use Directions | Restrictions |
|--|-----------------------|--|--|---|
| cauliflower broccoli | | 1.6 - 2.4 fl oz/ 1,000 linear ft of row 1.6 - 2.75 fl oz/ | 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. Shallow | Do not apply more than 2 pints of Dorsan 4E-41 to cauliflower planted in 40 inch rows. Use proportional |
| Brussels sprouts cabbage Chinese | root maggot | 1,000 linear ft of row | incorporation is necessary. Placement behind the planter shoe and in front of the presswheel is recommended. | amounts for other row spacings not to exceed 4 pints of Dorsan 4E-41 per acre. |
| cabbage collards kale kohlrabi turnips | | | For transplanted crops, apply Dorsan 4E-41 as a water-based spray directed to the base of the plants immediately after setting. Use a minimum of 40 gallons of total spray per acre. Do not add any additional adjuvants, surfactants or spreader stickers. Do not apply as a foliage application. | Do not apply more than 2.6 pints of Dorsan 4E-41 per acre to broccoli, Brussels sprouts, cabbage, Chinese cabbage, collards, kale, kohlrabi, and turnips planted in 40 inch rows. Do not apply more than 4 1/2 pints of Dorsan 4E-41 per acre to these crops in 20 inch rows (or two rows per bed). Use proportional amounts for other row spacings not to exceed 4 1/2 pints of Dorsan 4E-41 per acre. |

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| broccoli | root aphid | 1.2 fl oz/1,000 | Apply Dorsan 4E-41 in a water | Do not make more than 1 |
|-----------|--------------|------------------|--|------------------------------|
| cabbage | | linear ft of row | emulsion or with liquid fertilizer | application per season or |
| | | for single row | injected as a sidedress on each side | apply within 30 days before |
| | | plantings, and | of the row after plants are | harvest. |
| | | 2.4 fl oz/1,000 | established. Avoid mechanical | |
| | | linear ft of row | damage to crop roots. Use a | |
| | ļ | for double row | minimum of 15 gallons of total spray | |
| | | plantings. | volume per acre. | |
| Brussels | armyworms | 1 - 2 pints/acre | Apply Dorsan 4E-41 with | Do not make more than 6 |
| sprouts | cabbage | - | conventional power-operated spray | applications per season. Do |
| | aphid | | equipment in 20 to 150 gallons of | not apply within 21 days |
| | cutworms | | water per acre. Apply when insects | before harvest. |
| | imported | | appear on foliage and at 7 to 14 day | |
| | cabbage- | | intervals thereafter as needed. | |
| | worm | | Consult your state agricultural | |
| | striped flea | | experiment station, extension service | |
| | beetle | | specialist, or integrated pest control | |
| | (adult) | | advisor for proper time to treat in | |
| | | | your area. | |
| radishes | root maggot | 1.0 fl oz/ | Apply the specified dosage as a water- | Do not apply more than 5 1/2 |
| | | 1,000 linear ft | based drench in the seed furrows | pints of Dorsan 4E-41 per |
| | 1 | of row | with the seed at planting time. Use a | acre or make more than one |
| | | | minimum of 40 gallons of total | application per season. |
| | | | drench per acre. | |
| rutabagas | root maggot | 1.6 - 3.3 tl oz/ | Apply the specified dosage in a water- | Do not apply more than 4 1/2 |
| | | 1,000 linear ft | based spray as a 4 inch wide band | pints of Dorsan 4E-41 per |
| | | of row | over the row at planting time, behind | acre or make more than one |
| | | | the planter shoe and in front of the | application per season. |
| | | | press wheel to achieve shallow | l |
| | | | incorporation. Use a minimum of 40 | Do not use rutabaga tops for |
| | | | gallons of total spray volume per | food or feed purposes. |
| | | | acre. | |

Warranty Disclaimer

Luxembourg Pamol, Inc. 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, subject to the inherent risks set forth below. LUXEMBOURG PAMOL, INC. MAKES NO OTHER EXPRESS OR IMPLIED 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 associated with use of this product. Crop injury, lack of performance, or other unintended consequences 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, tornadoes, hurricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of Luxembourg Pamol, Inc. or the seller. All such risks shall be assumed by buyer.

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Limitation of Remedies

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

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

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(2) Replacement of amount of product used

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

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