

8/2/2012

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D C 20460



OFFICE OF  
CHEMICAL SAFETY AND  
POLLUTION PREVENTION

August 2, 2012

Darin W Lickfeldt  
Dow AgroSciences  
9330 Zionsville Road  
Indianapolis, IN 46268

Dear Dr Lickfeldt

Subject Amended label to revise the directions for use in nurseries  
Dursban® 50W in Water Soluble Packets  
EPA Registration No 62719-72  
EPA Decision No 465835  
Your submission dated May 21, 2012

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, is acceptable. A stamped copy of the label is enclosed for your records. Please submit one copy of your final printed labeling before you release the product for shipment. Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). If you have any questions, please contact Julie Chao by phone at (703) 308-8735, or by email at [chao.julie@epa.gov](mailto:chao.julie@epa.gov)

Regards,

A handwritten signature in black ink that reads "Venus Eagle".

Venus Eagle, Product Manger (01)  
Insecticide-Rodenticide Branch  
Registration Division (7505P)

Enclosure

2/23

Box label

**RESTRICTED USE PESTICIDE**

Due to primary eye irritation study For retail sale to and use only by Certified Applicators or persons under their direct supervision and only for those uses covered by the Certified Applicator's certification

**Dursban® 50W in Water Soluble Packets**

**Specialty Insecticide**

Active Ingredient

chlorpyrifos O O diethyl O-  
(3 5 6-trichloro-2-pyridinyl)  
phosphorothioate

50%

Other Ingredients

50%

Total

100%

**Keep Out of Reach of Children**

**DANGER PELIGRO**

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 )

**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 inside of label booklet additional precautionary information including Directions for Use

**Notice** Read the entire label Use only according to label directions **Before using this product, read Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies at end of label booklet If terms are unacceptable, return at once unopened**

In case of emergency endangering health or the environment involving this product call 1-800-992-5994

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

EPA Reg No 62719-72

EPA Est \_\_\_\_\_

®Trademark of Dow AgroSciences LLC

**Produced for**  
**Dow AgroSciences LLC**  
**9330 Zionsville Road**  
**Indianapolis, IN 46268**

**Net Weight \_\_\_ x \_\_\_ x 4 oz**

ACCEPTED  
AUG - 2 2012

**Under the Federal Insecticide, Fungicide,  
and Rodenticide Act, as amended, for the  
pesticide registered under**

EPA Reg No 62719-72

Overpack label

**RESTRICTED USE PESTICIDE**

Due to primary eye irritation study For retail sale to and use only by Certified Applicators or persons under their direct supervision and only for those uses covered by the Certified Applicator's certification

**Dursban<sup>®</sup> 50W in Water Soluble Packets****Specialty Insecticide**

**The contents of this package are not for individual resale This product is not for residential use**

## Active Ingredient

chlorpyrifos O O-diethyl O-  
(3 5 6-trichloro-2-pyridinyl)  
phosphorothioate

50%

Other Ingredients

50%

Total

100%

**Keep Out of Reach of Children****DANGER PELIGRO**

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 )

**Precautionary Statements****Hazards to Humans and Domestic Animals**

**Corrosive • Causes Irreversible Eye Damage • May Be Fatal If Swallowed • Prolonged Or Frequently Repeated Skin Contact May Cause Allergic Reactions In Some Individuals**

**Do not get in eyes or on clothing Wear protective eyewear (goggles or face shield) Avoid contact with skin**

**Personal Protective Equipment (PPE)**

Materials that are chemical-resistant to this product are barrier laminate polyethelene butyl rubber nitrile rubber neoprene rubber natural rubber polyvinyl chloride (PVC) and viton (all  $\geq 14$  mils)

**Mixers and loaders must wear**

Long sleeved shirt and long pants  
Chemical-resistant gloves  
Shoes plus socks  
Protective eyewear (goggles or face shield)  
Chemical-resistant apron

**All other handlers must wear**

Coveralls over long-sleeved shirt and long pants  
Chemical resistant gloves  
Chemical resistant apron when mixing or loading  
Chemical-resistant footwear plus socks  
Protective eyewear (goggles or face shield)  
Chemical-resistant headgear for overhead exposures

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A NIOSH-approved dust mist filtering respirator with MSHA/NIOSH approval number prefix TC-21C or a NIOSH-approved respirator with any N R P or HE filter

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 exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

### Engineering Controls

Water soluble packets, when used correctly, qualify as a closed mixing/loading system under the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4)]. Mixers and loaders using water soluble packets must wear the PPE required above for mixer/loaders and have immediately available for use in emergency (such as a broken package, spill or equipment breakdown) additional PPE. These PPE include coveralls and chemical-resistant footwear and a NIOSH-approved dust mist filtering respirator with MSHA/NIOSH approval number prefix TC-21C or a NIOSH approved respirator with any N R P or HE filter.

When applicators use closed cab motorized ground equipment in a manner that meets the requirements listed in the WPS for agricultural pesticides [40 CFR 170.240(e)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

### User Safety Recommendations

Users should

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

#### Organophosphate

**If in eyes:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**If swallowed:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

**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.

**Note to Physician:** Probable mucosal damage may contraindicate the use of gastric lavage.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-992-5994 for emergency medical treatment information.

### Environmental Hazards

This pesticide is toxic to fish, aquatic invertebrates, small mammals, and birds. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff from treated areas may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when disposing of equipment washwater or rinsate. This product is



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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.

**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.

**Storage and Disposal**

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

**Pesticide Storage:** Store in original container in secured dry storage area. Prevent cross-contamination with other pesticides and fertilizers. Do not store above 122°F for extended periods of time. If container is damaged or spill occurs, use product immediately or dispose of product and damaged container as indicated below. Packets may become brittle when stored below 32°F. Handle carefully to avoid breakage.

**Pesticide Disposal:** Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

**Container Handling:** Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available.

Refer to label booklet for Directions for Use.

**Notice:** Read the entire label. Use only according to label directions. **Before using this product, read Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies at end of label booklet. If terms are unacceptable, return at once unopened.**

In case of emergency endangering health or the environment involving this product, call 1-800-992-5994.

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

EPA Reg. No. 62719-72

EPA Est. \_\_\_\_\_

®Trademark of Dow AgroSciences LLC

Produced for  
Dow AgroSciences LLC  
9330 Zionsville Road  
Indianapolis, IN 46268

Net Weight \_\_\_\_\_ XX x 4 oz water soluble pouches



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Bulk base label:

**RESTRICTED USE PESTICIDE**

Due to primary eye irritation study. For retail sale to and use only by Certified Applicators or persons under their direct supervision and only for those uses covered by the Certified Applicator's certification.

**Dursban<sup>®</sup> 50W in Water Soluble Packets****Specialty Insecticide**

Active Ingredient:

chlorpyrifos: O,O-diethyl O-  
(3,5,6-trichloro-2-pyridinyl)

phosphorothioate .....	50%
Other Ingredients .....	50%
Total .....	100%

**Keep Out of Reach of Children****DANGER PELIGRO**

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.)

**Precautionary Statements****Hazards to Humans and Domestic Animals**

**Corrosive • Causes Irreversible Eye Damage • May Be Fatal If Swallowed • Prolonged Or Frequently Repeated Skin Contact May Cause Allergic Reactions In Some Individuals**

**Do not get in eyes or on clothing. Wear protective eyewear (goggles or face shield). Avoid contact with skin.**

**Personal Protective Equipment (PPE)**

Materials that are chemical-resistant to this product are barrier laminate, polyethelene, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyvinyl chloride (PVC), and viton (all  $\geq 14$  mils).

**Mixers and loaders** must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves
- Shoes plus socks
- Protective eyewear (goggles or face shield)
- Chemical-resistant apron

**All other handlers** must wear:

- Coveralls over long-sleeved shirt and long pants
- Chemical-resistant gloves
- Chemical-resistant apron when mixing or loading
- Chemical-resistant footwear plus socks
- Protective eyewear (goggles or face shield)
- Chemical-resistant headgear for overhead exposures
- A NIOSH-approved dust mist filtering respirator with MSHA/NIOSH approval number prefix TC-21C or a NIOSH-approved respirator with any N, R, P, or HE filter

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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 exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

### Engineering Controls

Water soluble packets, when used correctly, qualify as a closed mixing/loading system under the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4)]. Mixers and loaders using water soluble packets must wear the PPE required above for mixer/loaders and have immediately available for use in emergency (such as a broken package, spill, or equipment breakdown) additional PPE. These PPE include coveralls and chemical resistant footwear and a NIOSH-approved dust/mist filtering respirator with MSHA/NIOSH approval number prefix TC-21C or a NIOSH-approved respirator with any N, R, P, or HE filter.

When applicators use closed cab motorized ground equipment in a manner that meets the requirements listed in the WPS for agricultural pesticides [40 CFR 170.240(e)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

### User Safety Recommendations

Users should

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

#### Organophosphate

**If in eyes:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**If swallowed:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

**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.

**Note to Physician:** Probable mucosal damage may contraindicate the use of gastric lavage.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-992-5994 for emergency medical treatment information.

### Environmental Hazards

This pesticide is toxic to fish, aquatic invertebrates, small mammals, and birds. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff from treated areas may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when disposing of equipment, washwater, or rinsate. 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.



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**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.

**(Storage and Disposal for refillable rigid containers greater than 5 gal)****Storage and Disposal**

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

**Pesticide Storage** Store in original container in secured dry storage area. Prevent cross-contamination with other pesticides and fertilizers. Do not store above 122°F for extended periods of time. If container is damaged or spill occurs, use product immediately or dispose of product and damaged container as indicated below. Packets may become brittle when stored below 32°F. Handle carefully to avoid breakage.

**Pesticide Disposal** Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

**Container Handling** Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose.

Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or a mix tank. Fill the container about 10% full with water and, if possible, spray all sides while adding water. If practical, agitate vigorously or recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

**(Storage and Disposal for nonrefillable rigid containers larger than 5 gal)****Storage and Disposal**

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

**Pesticide Storage** Store in original container in secured dry storage area. Prevent cross-contamination with other pesticides and fertilizers. Do not store above 122°F for extended periods of time. If container is damaged or spill occurs, use product immediately or dispose of product and damaged container as indicated below. Packets may become brittle when stored below 32°F. Handle carefully to avoid breakage.

**Pesticide Disposal** Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

**Container Handling** Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available.

Triple rinse or pressure rinse container (or equivalent) promptly after emptying. **Triple rinse** as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. **Pressure rinse** as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

Refer to label booklet for Directions for Use.

**Notice** Read the entire label. Use only according to label directions. **Before using this product, read Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies at end of label booklet.** If terms are unacceptable, return at once unopened.



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In case of emergency endangering health or the environment involving this product, call 1-800-992-5994.

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

EPA Reg. No. 62719-72

EPA Est. \_\_\_\_\_

®Trademark of Dow AgroSciences LLC

**Produced for  
Dow AgroSciences LLC  
9330 Zionsville Road  
Indianapolis, IN 46268**

**Net Weight** \_\_\_\_\_

**[Editor's Note: The specific amount will be filled in at the time of production.]**

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WSP label

**RESTRICTED USE PESTICIDE**

Due to primary eye irritation study For retail sale to and use only by Certified Applicators or persons under their direct supervision and only for those uses covered by the Certified Applicator's certification

**Dursban® 50W in Water Soluble Packets**

**Specialty Insecticide**

**This bag [container] is not for individual resale This product is not for residential use**

**Active Ingredient**

chlorpyrifos O O diethyl O-  
(3 5 6-trichloro-2-pyridinyl)  
phosphorothioate 50%

Other Ingredients 50%

Total 100%

**Keep Out of Reach of Children**

**DANGER PELIGRO**

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 label booklet for Directions for Use**

EPA Reg No 62719-72

Label booklet cover

**RESTRICTED USE PESTICIDE**  
 Due to primary eye irritation study For retail sale to and use only by Certified Applicators or persons under their direct supervision and only for those uses covered by the Certified Applicator's certification

# Dursban® 50W in Water Soluble Packets

## Specialty Insecticide

Active Ingredient	
chlorpyrifos O O-diethyl O-	
(3 5 6-trichloro-2-pyridinyl)	
phosphorothioate	50%
Other Ingredients	50%
Total	100%

### Keep Out of Reach of Children

## DANGER PELIGRO

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 )

**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 inside of label booklet for additional precautionary information including Directions for Use**

**Notice** Read the entire label Use only according to label directions **Before using this product, read Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies at end of label booklet If terms are unacceptable, return at once unopened**

In case of emergency endangering health or the environment involving this product call 1-800-992-5994

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

EPA Reg No 62719-72

EPA Est \_\_\_\_\_

®Trademark of Dow AgroSciences LLC

**Produced for  
Dow AgroSciences LLC  
9330 Zionsville Road  
Indianapolis, IN 46268**

**Net Weight** \_\_\_\_\_

**[Editor's Note** The specific amount will be filled in at the time of production depending upon whether the product is in water soluble packets or a bulk container ]



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(Page 1 through end)

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## Precautionary Statements

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### Hazards to Humans and Domestic Animals

# DANGER

**Corrosive • Causes Irreversible Eye Damage • May Be Fatal If Swallowed • Prolonged Or Frequently Repeated Skin Contact May Cause Allergic Reactions In Some Individuals**

**Do not get in eyes or on clothing Wear protective eyewear (goggles or face shield) Avoid contact with skin**

### Personal Protective Equipment (PPE)

Materials that are chemical-resistant to this product are barrier laminate polyethelene butyl rubber nitrile rubber neoprene rubber natural rubber polyvinyl chloride (PVC) and viton (all  $\geq 14$  mils)

**Mixers and loaders** must wear

- Long-sleeved shirt and long pants
- Chemical resistant gloves
- Shoes plus socks
- Protective eyewear (goggles or face shield)
- Chemical-resistant apron

**All other handlers** must wear

- Coveralls over long-sleeved shirt and long pants
- Chemical-resistant gloves
- Chemical-resistant apron when mixing or loading
- Chemical-resistant footwear plus socks
- Protective eyewear (goggles or face shield)
- Chemical-resistant headgear for overhead exposures
- A NIOSH-approved dust mist filtering respirator with MSHA/NIOSH approval number prefix TC-21C or a NIOSH-approved respirator with any N R P or HE filter

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 exist use detergent and hot water Keep and wash PPE separately from other laundry

### Engineering Controls

Water soluble packets when used correctly qualify as a closed mixing/loading system under the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170 240(d)(4)] Mixers and loaders using water soluble packets must wear the PPE required above for mixer/loaders and have immediately available for use in emergency (such as a broken package spill or equipment breakdown) additional PPE These PPE include coveralls and chemical-resistant footwear and a NIOSH-approved dust mist filtering respirator with MSHA/NIOSH approval number prefix TC-21C or a NIOSH-approved respirator with any N R P or HE filter

When applicators use closed cab motorized ground equipment in a manner that meets the requirements listed in the WPS for agricultural pesticides [40 CFR 170 240(e)(4-6)] the handler PPE requirements may be reduced or modified as specified in the WPS

<h3>User Safety Recommendations</h3>
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<p>Users should</p>
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Wash hands before eating drinking chewing gum using tobacco or using the toilet  
 Remove clothing/PPE immediately if pesticide gets inside Then wash thoroughly and put on clean 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

#### Organophosphate

**If in eyes** Hold eye open and rinse slowly and gently with water for 15-20 minutes Remove contact lenses, if present after the first 5 minutes then continue rinsing eye Call a poison control center or doctor for treatment advice

**If swallowed** Call a poison control center or doctor immediately for treatment advice Have person sip a glass of water if able to swallow Do not induce vomiting unless told to do so by a poison control center or doctor Do not give anything by mouth to an unconscious person

**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

**Note to Physician** Probable mucosal damage may contraindicate the use of gastric lavage

Have the product container or label with you when calling a poison control center or doctor or going for treatment You may also contact 1-800-992-5994 for emergency medical treatment information

### Environmental Hazards

This pesticide is toxic to fish aquatic invertebrates small mammals and birds Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark Drift and runoff from treated areas may be hazardous to aquatic organisms in water adjacent to treated areas Do not contaminate water when disposing of equipment washwater or rinsate 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

### Directions for Use

#### Restricted Use Pesticide

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

This product cannot be reformulated or repackaged into other end-use products

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

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Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) The REI for each crop is listed in the directions for use associated with each crop

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

- Coveralls over short-sleeved shirt and short pants
- Chemical-resistant gloves made of any waterproof material
- Chemical resistant footwear plus socks
- Chemical-resistant headgear for overhead exposure

Notify workers of the application by warning them orally and by posting warning signs at entrances to treated areas

### Storage and Disposal

Do not contaminate water food or feed by storage and disposal

**Pesticide Storage** Store in original container in secured dry storage area Prevent cross-contamination with other pesticides and fertilizers Do not store above 122°F for extended periods of time If container is damaged or spill occurs use product immediately or dispose of product and damaged container as indicated below Packets may become brittle when stored below 32°F Handle carefully to avoid breakage

**Pesticide Disposal** Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility

#### Nonrefillable rigid containers 5 gallons or less

**Container Handling** Nonrefillable container Do not reuse or refill this container

Triple rinse or pressure rinse container (or equivalent) promptly after emptying **Triple rinse** as follows Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip Fill the container 1/4 full with water and recap Shake for 10 seconds Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal Drain for 10 seconds after the flow begins to drip Repeat this procedure two more times **Pressure rinse** as follows Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal Insert pressure rinsing nozzle in the side of the container and rinse at about 40 psi for at least 30 seconds Drain for 10 seconds after the flow begins to drip Then offer for recycling if available or puncture and dispose of in a sanitary landfill or by incineration or by other procedures allowed by state and local authorities

#### Nonrefillable nonrigid containers

**Container Handling** Nonrefillable container Do not reuse or refill this container Offer for recycling if available

#### Refillable rigid containers larger than 5 gal

**Container Handling** Refillable container Refill this container with pesticide only Do not reuse this container for any other purpose

Cleaning the container before final disposal is the responsibility of the person disposing of the container Cleaning before refilling is the responsibility of the refiller To clean the container before final disposal empty the remaining contents from this container into application equipment or a mix tank Fill the container about 10% full with water and if possible spray all sides while adding water If practical agitate vigorously or recirculate water with the pump for two minutes Pour or pump rinsate into application equipment or rinsate collection system Repeat this rinsing procedure two more times Then offer for recycling if available or puncture and dispose of in a sanitary landfill or by incineration or by other procedures allowed by state and local authorities

#### Nonrefillable rigid containers larger than 5 gal



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**Container Handling** Nonrefillable container Do not reuse or refill this container  
 Triple rinse or pressure rinse container (or equivalent) promptly after emptying **Triple rinse** as follows  
 Empty the remaining contents into application equipment or a mix tank Fill the container 1/4 full with water Replace and tighten closures Tip container on its side and roll it back and forth ensuring at least one complete revolution for 30 seconds Stand the container on its end and tip it back and forth several times Turn the container over onto its other end and tip it back and forth several times Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal Repeat this procedure two more times **Pressure rinse** as follows Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal Insert pressure rinsing nozzle in the side of the container and rinse at about 40 psi for at least 30 seconds Drain for 10 seconds after the flow begins to drip Then offer for recycling if available or puncture and dispose of in a sanitary landfill or by incineration or by other procedures allowed by state and local authorities

**Product Information**

Dursban® 50W in Water Soluble Packets specialty insecticide is a wettable powder formulation designed for use as a spray to control various pests injurious to trees turfgrass and ornamental plants The pests controlled are listed in the accompanying tables

**Use Precautions and Restrictions**

- **Chemigation** Do not apply this product through any type of irrigation system
- Keep out of fishpools and other bodies of water
- Do not treat vegetable gardens
- Do not allow meat or dairy animals to graze in treated areas
- Do not feed treated grass cuttings (hay) or seed screenings to livestock or use hay for livestock bedding
- Do not use in poultry houses or greenhouses
- Do not aerially apply this product

**Handling Precautions for Water Soluble Packets** Do not remove water soluble packet from the overpack except for immediate use Do not allow water soluble packets to come into contact with water prior to use Do not handle water soluble packets with wet hands or wet gloves Do not open water soluble packets Do not remove packets from overwrap except to add the intact packet directly into the spray tank Do not split packets Partial use of packets is not allowed Carefully reseal package containing unopened water soluble packets and protect package from moisture

**Spray Drift Management**

Do not allow spray to drift from the application site and contact people structures people occupy at any time and the associated property parks and recreation areas non-target crops aquatic and wetland sites woodlands pastures rangelands or animals

Avoiding spray drift at the application site is the responsibility of the applicator The interaction of many equipment and weather-related factors determine the potential for spray drift The applicator is responsible for considering all of these factors when making decision to apply this product

Observe the following precautions when spraying Dursban 50W adjacent to permanent bodies of water such as rivers natural ponds lakes streams reservoirs marshes estuaries and commercial fish ponds

The following treatment setbacks or buffer zones must be utilized for all applications around the above listed aquatic areas with the following application equipment

Application Method	Required Setback (Buffer Zone) (feet)
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ground boom	25
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Making applications when wind is blowing away from sensitive areas is the most effective way to reduce the potential for adverse effects

Follow these spray drift **best management practices** to avoid off-target drift movement from applications

### Ground Boom Application

The following mandatory spray drift **best management practices** are required to reduce the likelihood of off-target drift movement from ground applications

- Choose only nozzles and pressures that produce a medium or coarse droplet size (255 to 400 microns volume median diameter) per ASABE Standard 572.1. See manufacturer's catalog or USDA/NAAA Applicator's Guide for spray size quality ratings
- Apply with nozzle height no more than 2 feet above the ground or crop canopy
- Do not apply product when wind speed exceeds 10 mph as measured by an anemometer

### Application Directions

#### Ground Application

Orient the boom and nozzles so that uniform coverage is obtained. The swath width should not be wider than the boom. Follow nozzle manufacturer's recommendations for insecticide nozzles with respect to nozzle type, pressure, and spacing.

### Mixing Directions

Dursban 50W mixes readily with water to form a suspension. Thorough mixing is required. To prepare the spray mixture for paddle, sparger, and bypass agitation systems:

1. Fill the tank with 1/3 full of the total amount of water required for the load. **Note:** For paddle agitation systems, cover paddles with water.
2. Start agitation. Maintain agitation throughout mixing and application.
3. Add the required number of water-soluble packets (product in transparent film) directly into the spray tank. Water-soluble packets will float on the surface until the water-soluble film dissolves and releases the product. Minimize the handling of packets. **Important: Do not open water-soluble packets.**
4. Continue agitation and complete filling the tank.
5. Before spraying, make sure packets have completely disintegrated and product is thoroughly and uniformly mixed. Depending upon the water temperature and the degree of agitation, the packet and product should be completely dispersed within 10 minutes from the time they were added to the water.

To ensure a uniform spray mixture, continuous agitation is required during mixing and spraying. Apply the same day as mixing, especially at high concentrations (low carrier rates). If product is allowed to settle, thoroughly agitate to resuspend the mixture before spraying.

### Uses

#### Ornamentals Grown in Nurseries

**Worker Restricted Entry Interval:** Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours unless PPE required for early entry is worn.

Apply to ornamentals grown only in wholesale nursery operations. Wholesale nursery operations are commercial agricultural operations which do not sell or distribute directly to consumers or the general public through retail sales. Plants, trees, fruit, vegetables, or any parts of the plants, trees, fruits, or vegetables treated with this product cannot be sold or distributed directly to consumers or the general public through retail sales.

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Use Dursban 50W to treat flowers shrubs evergreens vines shade and flowering trees and non bearing fruit trees to control the pests listed in the following tables including (1) Sucking Insects and Mites (2) Defoliators and Leafminers (3) Borers Bark Beetles and Weevils and (4) Ants and Other Pests

Apply using suitable hand or power-operated spray equipment to ensure thorough and complete coverage Attempt to penetrate dense foliage but avoid over spraying to the point of runoff When using spray equipment delivering less than 200 gallons of spray per acre use the rate specified in the per acre column Thorough coverage is critical for effective insect control

Consult your State Agricultural Experiment Station or Extension Service Specialist for application timing and other specific use information

**Specific Use Precautions**

**Phytotoxicity** Do not apply under conditions of extreme heat or drought stress Environmental factors and varietal differences significantly influence phytotoxic expression Dursban 50W has been tested on numerous ornamental plants without causing serious phytotoxicity at specified use rates Before treating large numbers of plants treat a small block of plants and observe them for 7 to 10 days for symptoms of phytotoxicity **Note** The user assumes responsibility for determining if it is safe to treat other ornamental plants with Dursban 50W under commercial growing conditions

**(1) Sucking Insects and Mites (Ornamentals Grown in Nurseries)**

Pests	Amount of Dursban 50W (lb) per	
	100 Gallons	Acre
adelgids	0.5 - 1	1 - 2
cooley and eastern spruce galls	(2 - 4 4-oz packets)	(4 - 8 4 oz packets)
aphids		
apple		
balsam twig		
black pecan		
chrysanthemum		
cottonwood		
crape myrtle		
elm leaf		
melon		
peach		
rose		
spirea		
white pine		
woolly		
woolly apple		
yellow pecan		
boxelder bugs		
lace bugs (such as hawthorn)		
leafhoppers		
periodical cicada		
plant bugs		
psyllids		
spittlebugs		
thornbug		
whiteflies		



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leafhoppers mealybugs citrus taxus mites (1) clover red spider southern red spruce spider twospotted spider) thrips (exposed)	1 (4 4-oz packets)	2 (8 4-oz packets)
scale insects (2) cottoncushion cottony maple dearness euonymus fletcher Florida wax golden oak hemispherical lecanium magnolia oak kermes oak lecanium oystershell pine needle San Jose tea white birch	2 (8 4-oz packets)	2 - 4 (8 - 16 4 oz packets)

Numbers in parentheses (-) refer to Pest Specific Use Directions

**Pest-Specific Use Directions**

- Spider mites** When large numbers of eggs are present at the first application a second application after 3 to 5 days in the south or 7 to 10 days in the north may be required to control newly hatched nymphs and maintain effective control
- Scale insects** Apply when scale crawlers or first two stages of settled scales are present

**(2) Defoliators and Leafminers (Ornamentals Grown in Nurseries)**

Pests	Amount of Dursban 50W (lb) per	
	100 Gallons	Acre

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armyworms fall yellowstriped bagworms (1) cankerworms catalpa sphinx elm spanworms fall webworms grasshoppers greenstriped mapleworms green fruitworms hornworms jackpine budworms juniper webworms katydids leafrollers (2) maple leafcutters (3) oak skeletonizers oleander caterpillars	orange tortrix poplar tentmaker puss caterpillars rose chafers sawflies, exposed European pine pine pin oak redheaded spring elm caterpillars springtails spruce budworms western tent caterpillars eastern forest western walnut caterpillars yellownecked caterpillars	0.5 - 1 (2 - 4 4-oz packets)	1 - 2 (4 - 8 4-oz packets)
balsam gall midge beet armyworms beetles fuller rose native elm bark (5) browntail moth cutworms cypress tip moth Douglas fir tussock moth European pine shoot moth gypsy moth (4) holly bud moth	mahogany webworms mimosa webworms Nantucket pine tip moth oakworms California orangestriped redhumped) pandora moth pitch pine moth redhumped caterpillars subtropical pine tip moth tussock moth	1 (4 4-oz packets)	2 (8 4-oz packets)
beetles cottonwood leaf (6) elm leaf flea willow leaf		1 - 2 (4 - 8 4-oz packets)	2 (8 4-oz packets)
leafminers needleminers Jeffrey pine lodgepole pine spruce pine needle midge		2 (8 4-oz packets)	2 - 4 (8 - 16 4-oz packets)

Numbers in parentheses (-) refer to Pest-Specific Use Directions.

**Pest-Specific Use Directions:**

1. **Bagworms:** Treat when larvae are small and actively feeding.
2. **Leafrollers:** Apply spray before leaves are tightly rolled.
3. **Maple leafcutter:** On maple trees, spray larvae as cases are formed. Do not treat sugar maple trees intended for maple syrup production.
4. To control migrating and invading **gypsy moth larvae**, treat trunks and foliage.
5. **Bark beetles:** To reduce twig and branch feeding, apply in the spring or early summer.
6. **Cottonwood leaf beetles:** Apply to control larvae and adults infesting cottonwoods. Treat when field counts indicate damaging beetle populations are developing or present.

**(3) Borers, Bark Beetles and Weevils (Ornamentals Grown in Nurseries)**



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Pests	Amount of Dursban 50W (lb) per	
	100 Gallons	Acre
weevils blackvine (1) cranberry girdler (2) pine reproduction yellow poplar	1 (4 4-oz packets)	2 - 4 (8 - 16 4-oz packets)
borers (3) clearwing moths ash dogwood lesser peachtree lilac oak peachtree rhododendron longhorned beetles cottonwood locust red oak metallic wood bronze birch flatheaded appletree twolined chestnut pales weevil adults zimmerman pine moth	2 (8 4-oz packets)	-
northern pine weevil (4) pales weevil (4)	6 (24 4-oz packets)	-
beetles (5) ambrosia anobiidae black turpentine blister cottonwood leaf elm leaf European elm bark fuller rose Japanese june mountain pine native elm bark southern pine spruce western pine willow leaf	16 (64 4-oz packets)	-
weevils (6) northern pine pitch eating twig	32 (128 4-oz packets)	-

Numbers in parentheses (-) refer to Pest-Specific Use Directions.

**Pest-Specific Use Directions:**

1. **Blackvine weevils** are night feeders. Late afternoon spraying will give control in some areas.



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- 2 **Cranberry girdler larvae** For larvae infesting Douglas fir seedlings direct spray at lower crown and stems following egg laying during summer Apply a minimum of 50 gallons of dilute spray per acre and irrigate immediately after application to move the insecticide into the top 1 to 2 inches of soil
- 3 **Borers** Spray trunks and lower limbs of trees and shrubs when adults begin to emerge For **peachtree borers**, spray flowering trees and shrubs of the genus *Prunus* as a trunk spray before newly-hatched larvae enter the trees Thoroughly wet all bark areas from ground level to scaffold limbs Pheromone traps may aid in detection of adult clearwing moths Consult your State Agricultural Experiment Station or Extension Service specialist for proper time to treat
- 4 **Northern pine and pales weevil larvae** Apply as a cut stump spray or drench in winter or early spring
- 5 **Beetles** For **preventive treatment** spray the upper half of the tree trunk and into the lower 1/3 of the crown in the early spring or when threat of attack exists from nearby infested trees For **remedial treatment** spray the main trunk of infested trees or logs when damage occurs but before adult beetles begin to emerge
- 6 **Pine seedlings** Treat immediately after transplanting with enough spray to thoroughly wet the foliage and stems to the point of runoff Do not use more than 6 gallons of spray per acre

**(4) Ants and Other Pests (Ornamentals Grown in Nurseries)**

Pests	Amount of Dursban 50W (lb) per	
	100 Gallons	Acre
ants (1)	1	2
sowbugs	(4 4-oz packets)	(8 4-oz packets)
springtails		

Numbers in parentheses (-) refer to Pest-Specific Use Directions

**Pest-Specific Use Directions**

- 1 Excludes ants of significant public health importance such as fire ants harvester ants carpenter ants and pharaoh ants

**Ornamentals (Pre-Plant Incorporation Treatment of Field Grown Nursery Stock)**

Apply 8 lb of Dursban 50W (32 4-oz packets) per acre to soil and incorporate before transplanting or planting to control white grubs during transplant or seedling establishment Apply to the soil surface as a broadcast spray using sufficient water to obtain adequate coverage On the same day of the treatment incorporate the insecticide into the top 2 to 4 inches of the soil using a tandem disc field cultivator or equivalent incorporation equipment capable of thorough soil mixing

**Specific Use Precautions**

**Phytotoxicity** Do not apply under conditions of extreme heat or drought stress Environmental factors and varietal differences significantly influence phytotoxic expression Dursban 50W has been tested on numerous ornamental plants and loblolly pine without causing serious phytotoxicity at specified use rates Before treating large numbers of plant treat a small block of plants seed or transplant the test species or variety and observe them for a minimum of 14 days following emergence or transplanting for symptoms of phytotoxicity Do not blend Dursban 50W with dry bulk fertilizer materials **Note** The user assumes responsibility for determining if it is safe to treat other ornamental plants with Dursban 50W under commercial growing conditions

**Turfgrass**

**Worker Restricted Entry Interval** Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours unless PPE required for early entry is worn

Dilute Dursban 50W in water and apply to turfgrass grown for sod or seed using suitable application equipment For best results turfgrass should be moist at time of treatment

Pests	Amount of Dursban 50W (lb) per Acre
ants (7) green june beetle grubs armyworm leafhoppers beet lucerne moth fall millipedes yellowstriped mites chinch bugs clover crickets Bermudagrass stunt cutworms winter grain earwigs pillbugs European crane fly larvae sod webworms (lawn moths) (1) fiery skipper sowbugs grasshoppers springtails greenbugs	2 (8 4-oz packets)
billbugs (2) bluegrass Denver hunting	2 - 4 (8 - 16 4 oz packets)
annual bluegrass weevil ( <i>Hyperodes</i> ) (3) black turfgrass ataenius (4)	4 (16 4-oz packets)
mole crickets (5)	4 - 6 (6 - 24 4-oz packets)
white grubs (6) black turfgrass ataenius European chafer Japanese beetle larvae southern masked chafer	4 - 8 (16 32 4-oz packets)

Numbers in parentheses (-) refer to Pest-Specific Use Directions

**Pest-Specific Use Directions**

- Sod webworms** Delay watering or mowing of the treated area for 12 to 24 hours after treatment
- Billbugs** Spray early in the season just prior to or coinciding with the first appearance of adults as recommended by your local Agricultural Extension Service Specialist
- Annual bluegrass weevil** To control spray suspected problem areas in mid-April and again in mid-May or as recommended by your local Agricultural Extension Service Specialist
- Black turfgrass ataenius** adults Spray early in the season as recommended by your local Agricultural Extension Service Specialist Re-treat as needed 1 to 2 weeks later
- Mole crickets** Apply in a minimum spray volume of 50 gallons of water per acre using broadcast or suitable hand held application equipment Apply when early stage nymphs are active Efficacy may be enhanced by spraying late in the afternoon or early evening and irrigating the turf prior to treatment to move mole crickets to the soil surface
- White grubs** Spray when grubs are young and actively feeding near the soil surface usually during late July and August or as recommended by your local Agricultural Extension Service Specialist For best results soil should be moist prior to treatment For best results immediately after spraying irrigate the treated area with 1/2 to 1 inch of water to wash the insecticide into the thatch and underlying soil
- Excludes ants of significant public health importance such as fire ants harvester ants carpenter ants and pharaoh ants

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