



62719-72

12-18-2007

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 <p style="text-align: center;">U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs Registration Division (7505P) Ariel Rios Building 1200 Pennsylvania Ave., NW Washington, D.C. 20460</p> <p style="text-align: center;">NOTICE OF PESTICIDE: <input type="checkbox"/> Registration <input checked="" type="checkbox"/> Reregistration (under FIFRA, as amended)</p>	EPA Reg. Number: 62719-72	Date of Issuance: DEC 18 2007
	Term of Issuance: Unconditional	
Name of Pesticide Product: Dursban 50W		
Name and Address of Registrant (include ZIP Code): Dow AgroSciences 9330 Zionsville Road Indianapolis, IN 46268		
<p>Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.</p> <p>On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act. Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.</p> <p>Based on your response to the Reregistration Eligibility Decision, EPA has reregistered the product listed above. This action is taken under the authority of section 4(g)(2)(C) of the Federal Insecticide, Fungicide, and Rodenticide Act, as amended. Reregistration under this section does not eliminate the need for continual reassessment of pesticides. EPA may require submission of data at any time to maintain the registration of your product.</p> <p>Generic data requirements that have been identified in the RED as confirmatory data for the active ingredient contained in the subject product will continue to be tracked and assessed in the Agency's continual reassessment of pesticides.</p> <p>The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, is acceptable with the following comments:</p> <p>Please see page 2 for comments</p> <p>You must submit one (1) copy of the final printed label before you release the product for shipment. Products shipped after 12 months from the date of this Notice or the next printing of the label whichever occurs first, must bear the new revised label.</p> <p>A stamped copy of the label and acute toxicity review are enclosed for your records. Should you have any questions, please contact Registration Review Manager, Dr. Akiva Abramovitch at 703-308-8328.</p>		
Signature of Approving Official: Meredith F. Laws, Chief Insecticide-Rodenticide Branch Registration Division (7505P)	 Date: DEC 18 2007	

Label Comments:

- 1) Delete carpenter ants on page 15.
- 2) Delete General under General Use Precautions and Restrictions since there are mandatory statements and restrictions.
- 3) Delete "Miscellaneous" pests in 4 under Ornamentals grown in Nurseries.
- 4) All listing for ants (such as on pages 12 and 15) must exclude fire ants, carpenter ants, pharaoh ants and harvester ants.
- 5) Add on page 17 "to the extent allowed by applicable laws" before "DAS shall not be liable" and "DAS makes no other expressed or implied warranties."
- 6) Please add your complete US mailing address to the label.
- 7) Protective eyewear must also be listed in the PPE section as listed under the Hazard to Humans and Domestic Animals section. Also, it may be advisable to address the toxicology category I eye irritation in the Note to Physician

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(Base label for rigid containers 5 gal or less and nonrigid containers 50 lb or less):

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

ACCEPTED
with COMMENTS
In EPA Letter Dated:

DEC 18 2007

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 62719-12

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)

Some 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 ≥14 mils). For more information, follow instructions in Supplement Three of PR Notice 93-7. If you want more options, follow the instructions for category A on an EPA chemical-resistance category selection chart.

Mixers and loaders must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves
- Shoes plus socks
- 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
- 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 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

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.

Container Reuse: 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. If you wish to obtain additional product information, visit our web site at www.dowagro.com.

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 • Indianapolis, IN 46268 U.S.A.

Net Weight _____

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(Base label for rigid containers more than 5 gal and nonrigid containers more than 50 lb):

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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%

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Mixers and loaders must wear:

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- Chemical-resistant apron

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- Chemical-resistant headgear for overhead exposures
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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

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.

Container Reuse: 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.

Refer to label booklet for Directions for Use.

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Net Weight __

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Dursban® 50W
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Specialty Insecticide

Active Ingredient:

chlorpyrifos: O,O-diethyl O-
(3,5,6-trichloro-2-pyridinyl)
phosphorothioate50%

Other Ingredients50%

Total100%

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(Page 1 through end):

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Mixers and loaders must wear:

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All other handlers must wear:

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Organophosphate

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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.

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.

Nonrefillable containers:

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

Refillable containers:

Container Reuse: 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.

General 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, turf, and ornamental plants. The pests controlled are listed in the accompanying tables. Dursban 50W is compatible with insecticides, miticides, and fungicides commonly recommended except for alkaline materials such as Bordeaux mixture and lime. A small amount of spray mixture should be prepared to check for compatibility before a large volume of spray is mixed.

General 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 livestock 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.

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Handling Precautions for Water Soluble Packets: Do not remove water soluble packet from the overpack except for immediate use. Do not allow 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. 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 no-spray buffer zones must be utilized for all applications from the above listed aquatic areas with the following application equipment:

Application Method	Required Setback (Buffer Zone) (feet)
ground boom	25

Making applications when wind is blowing away from sensitive areas is the most effective way to reduce the potential for adverse effects.

The following mandatory spray drift **best management practices** are required to reduce the likelihood of 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.

1. Choose only nozzles and pressures that produce a medium or coarse droplet size (255 to 400 microns volume median diameter) per ASABE Standard 572. See manufacturer's catalog or USDA/NAAA Applicator's Guide for spray size quality ratings.
2. Make applications with nozzle tips no more than 2 feet above the ground or crop canopy. Making applications at the lowest height reduces exposure of droplets to evaporation and wind.
3. Do not apply product when wind speed exceeds 10 mph.

Application Guidelines

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, paddles should be covered with water.
2. Start agitation. **Maintain agitation throughout mixing and application.**

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3. Add 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. Handling packets with hands should be minimized. **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 on 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.

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 Miscellaneous 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 recommended 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: Environmental factors and varietal differences significantly influence phytotoxic expression. Dursban 50W has been tested on numerous ornamental plants without causing serious phytotoxicity at recommended use rates. Before treating large numbers of plants, it is recommended that a small block of plants be treated and observed 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

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adelgids (such as: cooley and eastern spruce galls, pine bark) aphids (such as: 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	0.5 - 1 (2 - 4 4-oz packets)	1 - 2 (4 - 8 4-oz packets)
leafhoppers mealybugs (such as: citrus, taxus) mites (such as: clover, red spider, southern red) (1) thrips (exposed)	1 (4 4-oz packets)	2 (8 4-oz packets)
scale insects (such as: cottonycushion, cottony maple, dearness, euonymus, fletcher, Florida wax, golden oak, hemispherical, lecanium, magnolia, oak kermes, oystershell, pine needle, San Jose, tea, white birch) (2)	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. **Spider mites:** When large numbers of eggs are present at the time of 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.
2. For **scale control**, 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	
armyworms (such as: 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 (such as: European pine, pine, pin oak, redheaded) spring elm caterpillars springtails spruce budworms tent caterpillars (such as: eastern, forest, western) walnut caterpillars western spruce budworms yellownecked caterpillars	0.5 - 1 (2 - 4 4-oz packets)	1 - 2 (4 - 8 4-oz packets)

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balsam gall midge beet armyworms beetles (such as: 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 (such as: 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 (such as: cottonwood leaf, elm leaf, flea, willow leaf) (6)		1 - 2 (4 - 8 4-oz packets)	2 (8 4-oz packets)
leafminers needleminers (such as: 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:** Spray should be applied before leaves are tightly rolled.
3. For **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. To reduce twig and branch feeding by **bark beetles**, 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)

Pests	Amount of Dursban 50W (lb) per	
	100 Gallons	Acre
weevils (such as: blackvine (1), cranberry girdler (2), pine reproduction, yellow poplar)	1 (4 4-oz packets)	2 - 4 (8 - 16 4-oz packets)
borers: clearwing moths (such as: ash, dogwood, lesser peachtree, lilac, oak, peachtree, rhododendron), longhorned beetles (such as: cottonwood, locust, red oak), metallic wood (such as: bronze birch, flatheaded appletree, twolined chestnut) (3) pales weevil adults zimmerman pine moth	2 (8 4-oz packets)	-
northern pine weevil (4) pales weevil (4)	6 (24 4-oz packets)	-
beetles (such as: 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) (5)	16 (64 4-oz packets)	-
weevils (such as: northern pine, pitch eating, twig) (6)	32 (128 4-oz packets)	-

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

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Pest-Specific Use Directions:

1. **Blackvine weevils** are night feeders. Late afternoon spraying will give control in some areas.
2. For **cranberry girdler 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. **Pales and northern pine weevil larvae:** Apply as a cut stump spray or drench.
5. 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 Miscellaneous Pests (Ornamentals Grown in Nurseries)

Pests	Amount of Dursban 50W (lb) per	
	100 Gallons	Acre
ants sowbugs springtails	1 (4 4-oz packets)	2 (8 4-oz packets)
carpenter ants (1)	16 (64 4-oz packets)	-

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

Pest-Specific Use Directions:

1. If possible, locate **carpenter ant** nests and drench thoroughly.

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

Apply Dursban 50W 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 at a rate of 8 lb per acre (32 4-oz packets) 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.

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.

Apply to turfgrass grown for sod or seed. Use Dursban 50W to control the pests listed in the following table at the rates indicated. Dilute Dursban 50W in water and apply using suitable application equipment. For best results, turf should be moist at time of treatment.

Pests	Amount of Dursban 50W (lb) per Acre

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ants armyworm (such as: beet, fall, yellowstriped) chinch bugs crickets cutworms earwigs European crane fly larvae fiery skipper grasshoppers greenbugs	green june beetle grubs leafhoppers lucerne moth millipedes mites (such as: clover, Bermudagrass stunt, winter grain) pillbugs sod webworms (lawn moths) (1) sowbugs springtails	2 (8 4-oz packets)
billbugs (such as: bluegrass, Denver, hunting) (2)		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 (such as: black turfgrass ataenius, European chafer, Japanese beetle larvae, southern masked chafer) (6)		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.
- To control **annual bluegrass weevil**, 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, irrigate immediately after application with 1/2 to 1 inch of water to move the insecticide into the top 1 to 2 inches of soil.

Certification Period: 42 days from day of application.

Specific Use Precautions:

To prevent repeated skin exposure to treated sod, wear elbow-length chemical-resistant gloves in addition to the PPE listed elsewhere on this label.

Terms and Conditions of Use

If terms of the following Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies are not acceptable, return unopened package at once to the seller for a full refund of purchase price paid. Otherwise, use by the buyer or any other user constitutes acceptance of the terms under Warranty Disclaimer, Inherent Risks of Use and Limitation of Remedies.

Warranty Disclaimer

Dow AgroSciences 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. Dow AgroSciences 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. Plant 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 temperature; 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 Dow AgroSciences or the seller. All such risks shall be assumed by buyer.

Limitation of Remedies

To the extent permitted by law, 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 Dow AgroSciences' election, one of the following:

1. Refund of purchase price paid by buyer or user for product bought, or
2. Replacement of amount of product used

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

The terms of the Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies cannot be varied by any written or verbal statements or agreements. No employee or sales agent of Dow AgroSciences or the seller is authorized to vary or exceed the terms of the Warranty Disclaimer or this Limitation of Remedies in any manner.

®Trademark of Dow AgroSciences LLC
EPA accepted ___/___/___

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Dursban® 50W

in Water Soluble Packets
EPA Reg. No. 62719-72

Registration Notes:

Source label text based on EPA accepted copy dated November 13, 2000.

Proposed changes by amendment previously submitted February 6, 2003:

1. Based upon the following acute tox studies and PR Notice 2001-1, revised First Aid section and Precautionary Statements:

Acute Toxicity Category by Route of Exposure:

Route of Exposure	Dursban* 50W
Oral LD ₅₀	Cat II
Dermal LD ₅₀	Cat IV
Inhalation	Cat IV
Ocular Irritation	Cat I
Dermal Irritation	Cat IV
Dermal Sensitization	Sensitizer

2. Changed "Waterproof gloves" to "Chemical-resistant gloves made of any waterproof material."
3. Revised Environmental Hazards section.
4. Revised Storage and Disposal section.
5. Added Terms and Conditions of Use section.
6. Referral statements to Warranty Disclaimer, Inherent Risks of Use and Limitation of Remedies were revised per EPA correspondence from Joanne I. Miller dated August 31, 2000 and Dow AgroSciences response to Donald R. Stubbs dated November 20, 2000.
7. Minor revisions throughout for clarity.

Note: This label meets the requirements of the EPA Chlorpyrifos Memorandum of Agreement dated June 7, 2000.

09June03 – Additional proposed changes made to this amended label submitted June 10, 2003:

1. Precautionary Statements: Added "Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals."

Proposed changes by amendment in response to Chlorpyrifos IRED dated February 11, 2003:

1. Revised Personal Protective Equipment section.
2. Added Engineering Controls section.
3. Revised User Safety Recommendations.
4. Revised Environmental Hazards section.
5. Directions for Use: Moved "Do not apply this product through any type of irrigation system." to General Use Precautions and Restrictions; changed "Do not formulate this product into other end use products." to "This product cannot be reformulated or repackaged into other end-use products."
6. Revised Agricultural Use Requirements section.
7. Revised Non-Agricultural Use Requirements section.
8. General Information: Added General Use Precautions and Restrictions, Spray Drift Management, and Application Guidelines sections.
9. General Use Precautions and Restrictions: Added "Do not aerially apply this product."; revised Handling Precautions for Water Soluble Packets.
10. Mixing Directions: Revised section.

Approved Uses (Listed in Alphabetical Order)

11. **Ornamentals Grown in Nurseries:** (1) Revised REI statement in box directly under heading; (2) added "Specific Use Precautions" before "Phytotoxicity"; (3) revised Phytotoxicity section; (4) revised rate formats in all four tables; (5) inserted "Numbers in parentheses (-) refer to Pest-Specific Use Directions." under each table; (6) revised all Pest-Specific Use Directions for clarity and consistency.
12. **Ornamentals (Pre-Plant Incorporation Treatment of Field Grown Nursery Stock):** Deleted "Do not aerially apply." as this statement is included in the General Use Precautions and Restrictions.
13. **Outside Surfaces and Around Buildings (Industrial Plant Sites Only):** (1) Deleted "Pest Control on" from beginning of title; (2) revised first paragraph for clarity; (3) revised rate formats; (4) moved Note in table to footnote under table; (5) inserted "Numbers in parentheses (-) refer to Pest-Specific Use Directions." under table; (6) revised Pest-Specific Use Directions for clarity and consistency.
14. **Turf in Golf Courses, Road Medians and Industrial Plant Sites:** (1) Deleted "(Maximum Use Rate of 2 lb (1 lb a.i.)/Acre)" from end of title; (2) revised first paragraph for clarity; (3) revised rate format; (4) inserted "Numbers in parentheses (-) refer to Pest-Specific Use Directions." under table; (5) moved text under General Use Directions to first paragraph underneath heading; (6) revised Pest-Specific Use Directions for clarity and consistency; (7) added Specific Use Restrictions from IRED.
15. **Turfgrass Grown for Sod or Seed (Agricultural Use):** (1) Revised REI statement in box directly under heading; (2) revised first paragraph for clarity; (3) revised rate formats; (4) inserted "Numbers in parentheses (-) refer to Pest-Specific Use Directions." under table; (5) moved text under General Use Directions to first paragraph underneath heading; (6) revised Pest-Specific Use Directions for clarity and consistency; (7) added Specific Use Restrictions.

29Jan07 – Additional proposed changes to this label in response to an EPA review dated August 17, 2006:

1. Updated trademark symbol throughout.
2. Moved generic descriptor "specialty insecticide" directly underneath the product name.
3. Ingredients Statement: Changed "inert" to "other."
4. Restricted Use Pesticide: Added "Due to primary eye irritation study."
5. First Aid: The statement "Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage." in this section addresses the Category I eye irritation toxicity.
6. Deleted Non-Agricultural Use Requirements box.
7. General Information: Changed "turf" to "turfgrass grown for sod or seed."
8. Ornamentals Grown in Nurseries: Deleted "termites," "cockroaches," "fire ants," and footnote number one.
9. Deleted "Outside Surfaces and Around Buildings (Industrial Plant Sites Only)" and "Turf in Golf Courses, Road Medians and Industrial Plant Sites"
10. Turfgrass Grown for Sod or Seed: Deleted "fire ants," "fleas," "imported fire ants" and footnotes one and eight.
11. Limitation of Remedies: Revised the first sentence in the first paragraph to read "To the extent permitted by law, the exclusive. . . ." Per a January 25, 2007 conversation between Michele Knorr (EPA OGC) and Charley Kirk (DAS Legal), EPA has no objection with DAS using the phrase "To the extent permitted by law."

27Jul07 – Additional proposed changes by amendment:

1. Storage and Disposal: Revised section per Federal Register Notice dated August 16, 2006.
2. Added "Produced for" before registrant name and address.