STATE OF HAWAII
Department of Agriculture
ACCEPTED
LICENSE NO.
9786.5

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.

Dow AgroSciences

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. 62719-72 900-020746 / 00313005

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

Precautionary Statements

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 ≥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.

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.

First Aid (Cont.)

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 cleaning equipment or disposing of equipment washwaters. 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.

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 122ºF 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 32ºF. 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.

Storage and Disposal (Cont.)

Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsiiblity 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:
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)**
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 buffer distances specified in the below table are the distances in feet that must exist to separate sensitive sites from the targeted application site. Buffers are measured from the edge of the sensitive site to the edge of the application site.

Sensitive sites are areas frequented by non-occupational bystanders (especially children). These include residential lawns, pedestrian sidewalks, outdoor recreational areas such as school grounds, athletic fields, parks and all property associated with buildings occupied by humans for residential or commercial purposes. Sensitive sites include homes, farmworker housing, or other residential buildings, schools, daycare centers, nursing homes, and hospitals. Non-residential agricultural buildings, including barns, livestock facilities, sheds, and outhouses are not included in this prohibition.

Application Rate (lb ai/A)	Nozzle Droplet Type	Required Setback (Buffer Zones) (feet)		
		Aerial	Airblast	Ground
>0.5 – 1	coarse or very coarse	10	10	10
>0.5 – 1	medium	25	10	10
>1 – 2	coarse or very coarse	50	10	10
>1 – 2	medium	80	10	10
>2 – 3	coarse or very coarse	80[1]	10	10
>2 – 3	medium	100[1]	10	10
>3 – 4	medium or coarse	NA[2]	25	10
>4	medium or coarse	NA	50	10

[1]Aerial application of greater than 2 lb ai/A is only permitted for Asian Citrus Psylla control, up to 2.3 lb ai/A.
[2]NA is not allowed.

Only pesticide handlers are permitted in the setback area during application of this product. Do not apply this product if anyone other than a mixer, loader, or applicator, is in the setback area. Exception: Vehicles and persons riding bicycles that are passing through the setback area on public or private roadways are permitted.

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 – Alone
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 with hands. **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.

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)

	Amount of Dursban 50W (lb) per	
Pests	**100 Gallons**	**Acre**
adelgids cooley and eastern spruce galls pine bark aphids apple balsam twig black pecan	0.5 - 1 (2 - 4 4-oz packets)	1 - 2 (4 - 8 4-oz packets)

(1) Sucking Insects and Mites (Ornamentals Grown in Nurseries) (Cont.)

Pests	Amount of Dursban 50W (lb) per	
	100 Gallons	**Acre**
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 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) cottonycushion cottony maple dearness euonymus fletcher Florida wax golden oak hemispherical lecanium magnolia	2 (8 4-oz packets)	2 - 4 (8 - 16 4-oz packets)

(1) Sucking Insects and Mites (Ornamentals Grown in Nurseries) (Cont.)

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

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. **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
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 caterpillers	orange tortrix poplar tentmaker puss caterpillers rose chafers sawflies, exposed European pine pine pin oak redheaded spring elm caterpillers springtails spruce budworms western tent caterpillars eastern forest western walnut caterpillers yellownecked caterpillers	0.5 - 1 (2 - 4 4-oz packets)	1 - 2 (4 - 8 4-oz packets)

(2) Defoliators and Leafminers (Ornamentals Grown in Nurseries) (Cont.)

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

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 caterpillers
	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. **Gypsy moth larvae:** To control migrating and invading 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)

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	2 (8 4-oz packets)	-

metalic 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	16 (64 4-oz packets)	-

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

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

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) armyworm 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 clover Bermudagrass stunt winter grain pillbugs sod webworms (lawn moths) (1) sowbugs springtails	2 (8 4-oz packets)
billbugs (2) bluegrass Denver hunting		2 - 4 (8 - 16 4-oz packets)
annual bluegrass weevil (*Hyperodes*) (3) black turfgrass ataenius (4)		4 (16 4-oz packets)

Pests (Cont.)	Amount of Dursban 50W (lb) per Acre
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:

1. **Sod webworms:** Delay watering or mowing of the treated area for 12 to 24 hours after treatment.
2. **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.
3. **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.
4. **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.
5. **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.
6. **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.

7. Excludes ants of significant public health importance such as fire ants, harvester ants, carpenter ants, and pharaoh ants.

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. TO THE EXTENT PERMITTED BY LAW, 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

To the extent permitted by law, 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.

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EPA accepted 10/23/13

NOTES

NOTES

11"

Tear Notch placed .75" from top

Zipper placed 1.5" from top

.25" x 1" Eyemark

15"

30"

15"

.375" Seal

1/16"

1" no-print zone each side of center fold

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.

Dow AgroSciences

Dursban®

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.)

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 back panel of bag for additional Precautionary Statements including Personal Protective Equipment (PPE), User Safety Recommendations and Directions for Use including Storage and Disposal.

Notice: Read the entire label. Use only according to 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. 67545-AZ-001
900-020747 / 00313007

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

NET WEIGHT 7 X 4 OZ WATER SOLUBLE POUCHES

PLACE BOOKLET HERE

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, polyethylene, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyvinyl chloride (PVC), and viton (all ≥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)

All **other handlers** must wear:
- Coveralls over long-sleeved shirt and long pants
- Chemical-resistant apron when mixing or loading
- Chemical-resistant gloves
- 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 pockets, 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 pockets must wear the PPE required above for mixer/loaders, and have immediately available 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(d)(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(pralidoxam), 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 cleaning equipment or disposing of equipment washwaters. 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.

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 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.

8 102974 629 90 0 (10)

MASTER 900-009411

71-1/8"

21-1/8" | 13-11/16" | 21-3/16" | 13-5/8" | 1-1/2"

6-7/8"

Contents In Plastic
Do Not Cut To Open

10-3/8"

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.

Dow AgroSciences

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
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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. 67545-AZ-001

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

8 X 7 X 4 OZ WATER SOLUBLE POUCHES

00308768

Dow AgroSciences

Dursban®
50W In Water Soluble Packets
SPECIALTY INSECTICIDE 8 X 7 X 4 OZ WATER SOLUBLE POUCHES

Dow AgroSciences

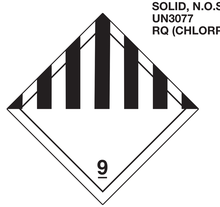
Dursban®
50W In Water Soluble Packets
SPECIALTY INSECTICIDE 8 X 7 X 4 OZ WATER SOLUBLE POUCHES

900-020748 / 00313006
BOX MFG. DATE:

00308768

4G/Z8.0/S/14
USA/+AA2021

ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID, N.O.S. (CHLORPYRIFOS)
UN3077
RQ (CHLORPYRIFOS)



(01) 5 06 62974 61029 3

24-1/8"

6-7/8"

MASTER: 900-006861
Use: 21 x 13.5 x 10 in., RSC, MW, C-flute, 32 ECT
Dimensions: 21" L x 13.5" W x 10" H