

**Sucking Insects and Mites**

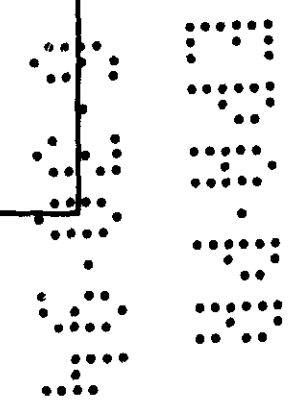
Pest	Amount of Dursban Pro per	
	1 gallon	100 gallons
Adeloids (Such as: Cooley and Eastern spruce galls, Pine bark) Aphids (Such as: Apple, Balsam twig, Black pecan, Chrysanthemum, Cottonwood, Crape myrtle, Elm leaf, Melon, Peach, Rose, Spirea, White pine, Woolly, Woolly apple, Yellow pecan) Boxelder bugs Lace bugs (Such as: Hawthorn) Periodical cicada Plant bugs Psyllids Spittlebugs Thornbug Whiteflies	1/6 - 1/3 fl oz	1 pt - 1 qt
Leafhoppers Mealybugs (Such as: Citrus, Taxus) Mites (Such as: Clover, Red spider, Spruce spider, Southern red, Twospotted spider) (1) Thrips (exposed)	1/3 fl oz	1 qt
Scale insects (Such as: Cottony cushion, 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)	2/3 fl oz	2 qt

**Specific Directions:**

1. For effective control of spider mites when large numbers of eggs are present, apply a second spray 3 to 5 days in the South or 7 to 10 days in the North after initial treatment to control newly hatched nymphs.
2. Time applications for control of scale insects when crawlers or first two stages of settled nymphs are present.

**Defoliators and Leafminers**

Pest	Amount of Dursban Pro per		
	1 gallon	100 gallons	
Armworms (Such as: Fall, Yellowstriped) Bagworms (1) Cankerworms Catalpa sphinx Elm spanworms Fall webworms (2) Grasshoppers Greenstriped mapleworms Green fruitworms Hornworms Jackpine budworms Juniper webworms Katydids Leafrollers (3) Maple leafcutters (4) 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 (Such as: Eastern, Western) Tent caterpillars (Such as: Eastern, Forest, Western) Walnut caterpillars Yellownecked caterpillars	1/6 - 1/3 fl oz	1 pt - 1 qt



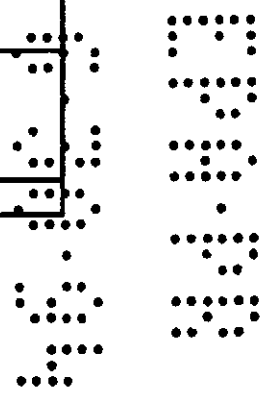
Balsam gall midge Beet armyworms Beetles (Such as: Fuller rose) (5) Browntail moth Cutworms Cypress tip moth Douglas-fir tussock moth European pine shoot moth Gypsy moth (6) Holly bud moth	Mahogany webworms Mimosa webworms Nantucket pine tip moth Oakworms (Such as: California, Orangetriped, Redhumped) Pandora moth Pitch pine tip moth Redhumped caterpillars Subtropical pine tip moth Tussock moth	1/3 fl oz	1 qt
Beetles (Such as: Cottonwood leaf (7), Elm leaf, Flea, Willow leaf)		1/3 - 2/3 fl oz	1 - 2 qt
Leafminers Needleminers (Such as: Jeffrey pine, Lodgepole pine, Spruce) Pine needle midge Rhododendron gall midge		2/3 fl oz	2 qt

**Specific Directions:**

1. For bagworms, treat when larvae are small and actively feeding.
2. For effective control of fall webworms, direct spray into web and immediately surrounding foliage.
3. For effective control of leafrollers, spray should be applied before leaves are tightly rolled.
4. For maple leafcutter on maple trees, apply spray to larvae as cases are being formed. Do not treat sugar maple trees intended for maple syrup production.
5. To reduce foliar feeding on twigs and branches by beetles, applications should be made in the spring or early summer.
6. To control migrating and invading gypsy moth larvae, treat trunks and foliage.
7. For cottonwood leaf beetles, spray larvae and adults infesting cottonwoods. Applications should be made when damaging beetle populations are developing or present.

**Borers, Bark Beetles, and Weevils**

Pest	Amount of Dursban Pro per	
	1 gallon	100 gallons
Weevils (Such as: Black vine (1), Cranberry birdler (2), Pine reproduction, Yellow poplar)	1/3 fl oz	1 qt
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 apple tree, Twolined chestnut) (3) Pales weevil adults Zimmerman pine moth	2/3 fl oz	2 qt
Northern pine weevil (4) Pales weevil (4)	2 fl oz	6 qt
Beetles (5): (Such as: Ambrosia, Anobiidae, Black turpentine, Blister, Cottonwood leaf, Elm leaf, European elm bark, Fuller rose, Japanese, June, Mountain pine, Native elm bark (6), Southern pine, Spruce, Western pine, Willow leaf)	5 1/3 fl oz	4 gal
Weevils (Such as: Northern pine, Pitch eating, Twig) (7)	10 2/3 fl oz	8 gal



**Specific Directions:**

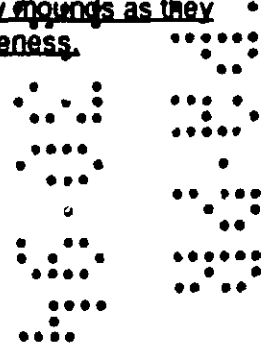
1. Black vine weevils are night feeders. Late afternoon spraying will maximize control.
2. For cranberry girdler larvae infesting Douglas-fir seedlings, direct spray at lower crown and stems following egg laying during summer and irrigate immediately after application to move the insecticide into the top 1 to 2 inches of soil.
3. For 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 and 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. For control of northern pine and pales weevil larvae, apply as a cut stump spray or drench in winter or early spring.
5. For preventive treatment, spray the main trunk of trees 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 before adult beetles begin to emerge.
6. To prevent native elm bark beetles from over-wintering in uninfested trees, apply using a dilution of 2 gal per 100 gallons of water (2 2/3 fl oz per gallon) as a spray to the bottom 9 feet of trunk. Wet the trunk thoroughly but do not spray to runoff. Care should be taken to apply the spray right to the base of the root flare. Applications can be made from spring to early fall. To reduce twig and branch feeding on trees deemed to be of high value, apply as a spray to the tree crown using a dilution of 2 gal per 100 gallons of water (2 2/3 fl oz per gallon). Applications should be made in the spring or early summer using a sprayer that will give thorough coverage to the tree crown.
7. For pine seedlings, treat immediately after transplanting. Treat each seedling with enough spray to thoroughly wet the foliage and stem to the point of runoff.

**Ants, Termites, and Miscellaneous Pests**

Pest	Amount of Dursban Pro per	
	1 gallon	100 gallons
Ants Cockroaches (Such as: American, Asian, Brownbanded, German, Oriental, Smokybrown, Wood) Fire ants (foraging workers) Fire ants (mounds) (1) Sawbugs Springtails	1/3 fl oz	1 qt
Carpenter ants (2) Termites	5 1/3 fl oz	4 gal

**Specific Directions:**

1. For individual fire ant mounds apply Dursban Pro as a drench. Dilute 2 fl oz per 4 gallons of water. Gently sprinkle 1 to 2 gallons of the diluted insecticide over the surface of each mound and surrounding areas to a 2 foot diameter. For best results, apply in cool weather, 65-80°F, or in early morning or late evening hours. Treat new mounds as they appear. Pressurized sprays may disturb the ants and cause migration, reducing product effectiveness.
2. If possible, locate carpenter ant nests and drench thoroughly.



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**Ornamentals (Dormant Sprav of Tree Pests)**

Use Dursban Pro as a dormant or delayed dormant spray at the rates indicated to control the listed insects. While Dursban Pro may be used without oil, oil is recommended to control additional pests such as European red mite.

For high volume (dilute) sprays (200 to 600 gallons of spray mixture per acre), tank mix the specified dosage with 1 to 2 gallons of a petroleum spray oil recommended for dormant use in 100 gallons of water. Spray the entire tree to runoff using suitable ground spray equipment.

For low volume (concentrate) sprays (less than 200 gallons of spray mixture per acre), use the same amount of Dursban Pro as for a dilute spray and apply in a manner that will ensure thorough coverage of the trees. Use oil as recommended by your State Agricultural Experiment Station or Extension Service Specialist.

Precautions: Because cold dry conditions may cause Dursban Pro plus oil to infuse trees resulting in bud damage or drop, do not apply until winter rains or irrigation has replenished soil moisture such that bark and twigs are not desiccated.

Restrictions: Make only one application during the dormant season. Do not allow meat or dairy animals to graze in treated areas.

Pest	Amount of Dursban Pro per	
	1 gallon	100 gallons
Aphids (Such as: Mealy plum, Rosy apple, Woolly apple)	1/6 - 1/3 fl oz	1 qt - 1 qt
Borers (Such as: Peach twig)		
Cutworms (Such as: Climbing)		
Leafrollers (Such as: Obliquebanded, Pandemia)		
Pear psylla adults		
Scale insects (Such as: San Jose)		

**Fruit, Nut, and Citrus Trees**

Use Dursban Pro to treat almond, apple, cherry, filberts, nectarine, peach, pecan, plum, walnut and citrus trees or tree fruit (such as: grapefruit, lemon, orange) not grown for commercial consumption of fruit by spraying to the point of runoff. When treating citrus trees only, a petroleum spray oil recommended for use on citrus trees may be added to spray mixtures only at rates of up to 1.8 gallons per 100 gallons of water to improve control of aphids, mealybugs, scale insects and thrips. Treat when insects become a problem or in accordance with the local spray schedule recommended by your State Extension Service Specialist.

Precautions: Do not apply as a foliar spray to sweet cherries because contact of spray solution with leaves may result in premature leaf drop. Observe local use directions for tank mix combinations especially with applications of Dursban Pro plus spray oil. Do not apply Dursban Pro in combination with oil to walnuts. Dry or cold conditions may cause Dursban Pro plus oil to infuse trees resulting in bud damage or drop; do not apply until winter rains or irrigation has replenished soil moisture such that bark and twigs are not desiccated. Do not apply when trees are stressed by drought.

**Restrictions:**

Almonds, Filberts, Walnuts: Make only one dormant/delayed dormant spray application and no more than three foliar spray applications on almonds per season, one dormant/delayed dormant spray application and no more than two foliar spray applications on walnuts per season, and no more than three foliar spray applications on filberts per season. Do not apply within 14 days of harvest.

Apples: Rate applied must not exceed 2/3 fl oz per gallon or 2 qt per 100 gallons. Make no more than 8 applications per season. Do not apply last treatment within 28 days before harvest or apply last two treatments closer than 21 days apart.

Citrus (Such as: Grapefruit, Lemon, Orange): Rate applied must not exceed 1/3 fl oz per gallon or 1 qt per 100 gallons. Do not apply to flowering trees. Do not apply when temperature exceeds 95°F. Do not apply more than 2 applications per fruit year. Do not make a second application within 30 days of the first application. Do not pick fruit for consumption until 21 days after application.

Nectarines, Peaches (trunk sprays only): Do not allow spray to contact fruit. Make only one application per season. Do not apply within 14 days of harvest.



**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 temperatures, soil conditions, etc.), abnormal conditions (such as excessive rainfall, drought, tomadoes, hurricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of DowElanco or the seller. All such risks shall be assumed by Buyer.

**Limitation of Remedies**

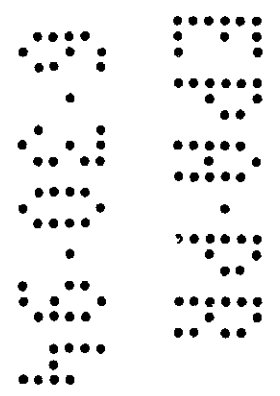
The exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability, or other legal theories), shall be limited to, at DowElanco's election, one of the following:

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

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

The terms of the Warranty Disclaimer above and this Limitation of Remedies cannot be varied by any written or verbal statements or agreements. No employee or sales agent of DowElanco 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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SEP 13 1994

Mr. John R. Fitt  
DowElanco  
9330 Zionsville Road  
Indianapolis, Indiana 46268-1054

Subject: Change of Brand Name--Addition  
of Sites, General Label Revisions  
Dursban Pro (Formerly XRM-5184 L.O.)  
EPA Registration Number 62719-166  
Your Amendment Application Dated July 29, 1994

Dear Mr. Fitt:

The change of brand name for this product to

Dursban Pro

is acceptable. We have amended our files to show this as the new official name of record for the product. As you know, we review and use the "Accepted" stamp only on labeling containing the official name of record.

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), sec. 3(c)(7)(A), is acceptable provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data.

2. Make the following labeling changes before you release the product for shipment bearing the amended labeling:

In the precautionary statement, add a sentence after the sentence, "Wear protective clothing...eyes and skin:"

As a minimum, chemically resistant gloves and footwear, a long-sleeved shirt and long-legged pants or coveralls are recommended.

3. Submit five (5) copies of your final printed labeling before you release the product for shipment.

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

A stamped copy of the labeling is enclosed for your records.

Sincerely yours,

DHE

Dennis H. Edwards, Jr.  
Product Manager (19)  
Insecticide Rodenticide Branch  
Registration Division (7505C)

Enclosure



# Dursban Pro

EPA Reg. No. 62719-166

## Proposed Label Amendment

Current label text based on EPA-accepted copy dated June 12, 1991 for XRM-5184 L.O. The text of the original label (XRM-5184 L.O.) has been reformatted to reflect current DowElanco label format.

### Revisions:

1. Addition of new brand name "Dursban Pro".
2. Revised "sale copy" to accommodate proposed new uses.
3. Deleted the statement "Agricultural Chemical: Do not ship or store with food, feeds, drugs or clothing".
4. Storage and Disposal: Deleted the statement "Do not remove packages from container except for immediate use."
5. Deleted reference to metric units throughout.
6. Exclusionary statement has been added to remove this product from the scope of the Worker Protection Standard.
7. Handling Procedures: (1) Moved recommendation for use of respirator in confined areas to General Pest Control Indoors section; (2) Added recommendation for use of protective clothing to Precautionary Statements section.
8. General Pest Control Indoors: (1) Revised Handling Procedures for General Use Indoors; (2) Deleted information on application intervals; (3) Added crawl spaces and vehicles to Treatment Sites and deleted greenhouses; (4) Revised specific Indoor Use Directions for Brown Dog Ticks, Carpet Beetles, and Fleas.
9. General Pest Control Perimeter Treatments: (1) Revised Handling Procedures for General Use Indoors; (2) Deleted lawns and ornamental plantings from "Perimeter Treatments" section; (3) Deleted reference to application interval in Application Methods section; (4) Revised directions for fire ant mounds; (5) Corrected mixing instructions for high volume applications.
10. General Control of Wood-Infesting Insects: Minor editing.
11. Added Uses: General pest control in turf, ornamentals, and fruit, nut, and citrus trees. This section contains use patterns consistent with other EPA-accepted product labels for Dursban (chlorpyrifos).
12. Deleted "Proper Storage for Dilutions" statement from "General Information" section. This information is a duplication of directions stated in the "Storage and Disposal" section.

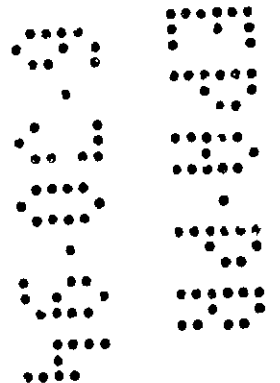
[Editor's note: Added text underlined, deleted text shown with ~~strike-through~~.]

ACCEPTED  
with COMMENTS  
in EPA Letter Dated

SEP 13 1994

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

62719-166



[Editor's note: Added text underlined, deleted text shown with ~~strike-through~~.]

(Container Label)

DowElanco (Logo)

# Dursban Pro

To be applied only by or under the supervision of commercial applicators responsible for pest control programs

For control of various pests in and around residential and nonresidential buildings and structures, on various modes of transport, and on turf, ornamental plants, or fruit, nut, and citrus trees not grown for sale or commercial production.

**Active Ingredient:**

chlorpyrifos: 0,0-diethyl 0-(3,5,6-trichloro-2-pyridinyl) phosphorothioate .....	22.0%
Inert Ingredients .....	78.0%
Total .....	100.0%

Contains 2.0 pounds of chlorpyrifos per gallon.

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## Precautionary Statements

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### Hazards to Humans and Domestic Animals

**Keep Out of Reach of Children**

**CAUTION PRECAUCION**

**Precaucion al usuario:** Si usted no lee inglés, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.

**Harmful If Swallowed, Inhaled, Or Absorbed Through Skin**

**Avoid contact with eyes, skin or clothing. Avoid breathing vapors or spray mist. Wear eye protection. Handle concentrate in a ventilated area. Wear protective clothing when using or handling this product to help avoid reduce exposure to eyes and skin. Keep away from food, feedstuffs and water supplies. Wash thoroughly with soap and water after handling and before eating or smoking. Remove contaminated clothing and wash before reuse.**

### First Aid

**If swallowed:** Call a physician or Poison Control Center immediately. Do not induce vomiting. Do not put anything into the mouth of an unconscious person.

**If on skin:** Wash exposed area with plenty of soap and water. Get medical attention.

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

**If inhaled:** Remove person to fresh air and if not breathing give artificial respiration, preferably by mouth to mouth. Get medical attention.

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

### Environmental Hazards

This pesticide is toxic to birds and wildlife and extremely toxic to fish and aquatic organisms. Do not apply directly to water, 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 adjacent aquatic sites. Do not contaminate water by cleaning of equipment or disposal of equipment washwaters. Cover or contain spills outdoors and dispose of in a manner consistent with local, state, and federal regulations.

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printed August 23, 1994

page 2

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

In case of an emergency endangering health or the environment involving this product, call collect 517-636-4400.

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

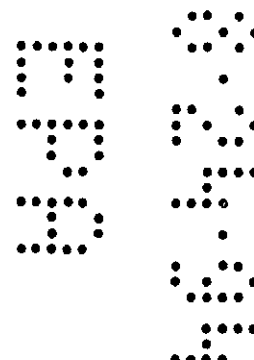
EPA Reg. No. 62719-166

EPA Est. 464-MI-1

DowElanco • Indianapolis, IN 46268-1054 U.S.A.

## Insecticide

● Net Contents \_\_\_\_\_



[Editor's note: Added text underlined, deleted text shown with ~~strike-through~~.]

(Label Booklet)

DowElanco (Logo)

# Dursban Pro

To be applied only by or under the supervision of commercial applicators responsible for pest control programs

For control of various pests in and around residential and nonresidential buildings and structures, on various modes of transport, and on turf, ornamental plants, or fruit, nut, and citrus trees not grown for sale or commercial production.

**Active Ingredient:**

chlorpyrifos: 0,0-diethyl 0-(3,5,6-trichloro-2-pyridinyl) phosphorothioate .....	22.0%
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Total .....	100.0%

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## CAUTION

## PRECAUCION

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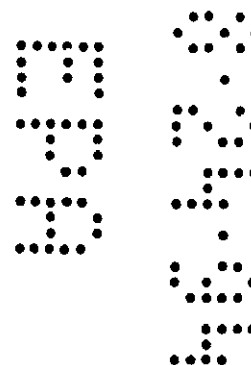
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## Insecticide



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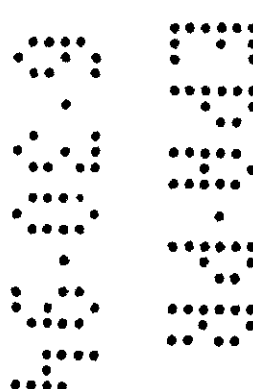
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Warranty Disclaimer



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Inherent Risks of Use  
Limitation of Remedies

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### Precautionary Statements

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#### Hazards to Humans and Domestic Animals

#### Keep Out of Reach of Children

#### CAUTION

#### PRECAUCION

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#### Harmful If Swallowed, Inhaled, Or Absorbed Through Skin

Avoid contact with eyes, skin or clothing. Avoid breathing vapors or spray mist. Wear eye protection. Handle concentrate in a ventilated area. Wear protective clothing when using or handling this product to help avoid reduce exposure to eyes and skin. Keep away from food, feedstuffs and water supplies. Wash thoroughly with soap and water after handling and before eating or smoking. Remove contaminated clothing and wash before reuse.

#### First Aid

If swallowed: Call a physician or Poison Control Center immediately. Do not induce vomiting. Do not put anything into the mouth of an unconscious person.

If on skin: Wash exposed area with plenty of soap and water. Get medical attention.

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

If inhaled: Remove person to fresh air area if not breathing give artificial respiration, preferably by mouth to mouth. Get medical attention.

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

#### Environmental Hazards

This pesticide is toxic to birds and wildlife and extremely toxic to fish and aquatic organisms. Do not apply directly to water, 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 adjacent aquatic sites. Do not contaminate water by cleaning of equipment or disposal of equipment washwaters. Cover or contain spills outdoors and dispose of in a manner consistent with local, state, and federal regulations.

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### Directions for Use

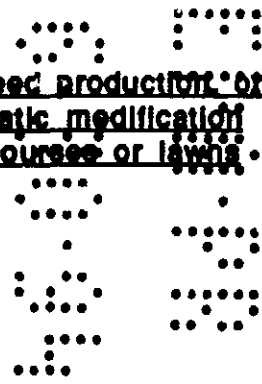
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It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Read all Directions for Use carefully before applying.

Do not formulate this product into other end-use products.

Not for use on plants grown for sale or other commercial use, or for commercial seed production or for research purposes. For use on plants intended for aesthetic purposes or climatic modification and being grown in interior plantscapes, ornamental gardens or parks, or on golf courses or lawns and grounds.



**STORAGE AND DISPOSAL**

Do not contaminate water, food or feed by storage or disposal.  
~~Do not remove packages from container except for immediate use.~~  
**Storage:** Store in original container in secured dry storage area. Prevent cross-contamination with other pesticides or fertilizers. Do not store above 122°F for extended periods of time. Preferred storage is above 32°F. Storage below 32°F may result in solidification. If warmed to above 32°F, product will return to original form. Freezing does not adversely affect this product. If container is damaged or spill occurs, use product immediately or dispose of product and damaged container as indicated below.  
**Storage for Dilutions:** Dilutions of Dursban Pro are sensitive to crystal formations when exposed to freezing, or near freezing temperatures, e.g. temperatures below 35°F, for extended periods of time. Therefore, dilutions allowed to stand overnight should be stored at temperatures above 40°F.  
**Pesticide Disposal:** Excess pesticide resulting from the use of this product may be disposed of on site according to label directions or at an approved waste disposal facility.  
**Container Disposal:** Do not reuse empty container. Triple rinse, wrap container and put in trash.

**General Information**

Dursban® Pro insecticide is an emulsifiable concentrate designed for use as a spray to control various pests in and around residential and nonresidential buildings and structures, ~~and on various modes of transport, and on turf, ornamental plants, and fruit, nut, and citrus trees not grown for sale or commercial production.~~

**General Use Precautions**

~~Do not formulate this product into other end-use products. (Moved to beginning of Directions for Use section.)~~  
~~Unless prohibited by a product's label, users at their own discretion, can tank mix pesticides currently labeled for similar use patterns.~~  
~~It is always recommended that a small jar compatibility test using proper proportions of chemicals and water be run to check for physical compatibility prior to tank mixing.~~  
~~Do not tank mix this product with products containing dichlorvos (DDVP).~~

**Proper Storage for Dilutions**

~~Dilutions of Dursban Pro are sensitive to crystal formation when exposed to freezing, or near freezing temperatures, e.g. temperatures below 35°F, for extended periods of time. Therefore, dilutions allowed to stand overnight should be stored at temperatures above 40°F.~~

**Handling Procedures**

~~Wear protective clothing when using or handling this product to help avoid exposure to eyes and skin. As a minimum, eye protection, chemically resistant gloves and footwear, a long-sleeved shirt and long-legged pants or coveralls are recommended.~~

**General Pest Control - Indoors**

**Directions for General Use Indoors**

Dursban Pro is intended to be mixed with water and applied as crack and crevice, spot, and broadcast treatments with pressurized sprayers or other equipment suitable for applying insecticides to localized areas. The active ingredient in this product can provide effective residual control of pests listed on this label. To minimize airborne particles, ~~spray pressure~~ should not exceed 30 psi at the nozzle tip.

**Handling Procedures for General Use Indoors**

~~Do not allow Adults, children or pets on should not contact treated surfaces areas until spray has dried.~~  
~~Before spraying, remove pets and cover aquaria, i.e., fish bowls, and turn off air pump.~~  
~~Do not apply where electrical short circuits could occur.~~  
~~Do not use indoors as a space spray or in fogging equipment.~~  
~~Do not use in poultry houses.~~  
~~To avoid breathing spray mist during application in confined areas, wear a mask or respirator of a type recommended by NIOSH for filtering spray mists.~~

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A period of from 4 to 7 days is normally required to observe maximum effectiveness on insect populations. Except as noted under "Food Handling Establishments", applications can be made in 7 day intervals. If necessary, Dursban Pro may be applied after 2 days from last treatment (call back treatments), but such use should be limited to once per month. It is recommended that eye protection be worn when making applications overhead.

**Treatment Sites**

When used in accordance to label directions Dursban Pro may be applied in and around residential and nonresidential buildings and structures including residential kitchens and all types of food handling establishments and vehicles. This product can be applied to walls, floors, ceilings, in and around cabinets, between, behind and beneath equipment and appliances, around floor drains, window and door frames, around plumbing, sinks and other possible pest harborage sites. Permitted areas of use include but are not limited to:

- |                             |                        |
|-----------------------------|------------------------|
| apartment buildings         | houses                 |
| bakeries                    | industrial buildings   |
| bottling facilities         | kitchens               |
| breweries                   | laboratories           |
| cafeterias                  | mausoleums             |
| <u>crawl spaces</u>         | mobile and motor homes |
| food manufacturing plants   | offices                |
| food processing plants      | restaurants            |
| food service establishments | schools                |
| granaries and grain mills   | stores                 |
| greenhouses                 | warehouses             |
| hospitals                   | wineries               |
| hotels                      | <u>vehicles</u>        |

**Dosage Rates**

Applications of 0.25% to 0.5% Dursban Pro can be made depending on pest species and conditions of premises. See "Specific Indoor Use Directions" for additional information.

**Mixing Directions**

To make a 0.25% water based spray mix 1 1/3 fl oz (39 ml) of Dursban Pro per each gallon of spray. To make a 0.5% water based spray mix 2 2/3 fl oz (79 ml) of Dursban Pro per each gallon of spray. A stable micro-emulsion of Dursban Pro can be formed by first adding approximately one-half the water to a spray tank followed by adding the proper amount of Dursban Pro. Close the tank and shake vigorously for 5 to 10 seconds. To avoid excess foam, slowly add the remaining water.

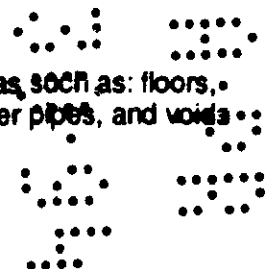
**Tank Mixing:** Unless prohibited by a product's label, users, at their own discretion, can tank mix pesticides currently labeled for similar use patterns. It is always recommended that a small jar compatibility test using proper proportions of chemicals and water be run to check for physical compatibility prior to tank mixing. Do not tank mix this product with products containing dichlorvos (DDVP).

**Application Methods**

This product may be applied indoors as crack and crevice, spot, and broadcast treatments. Treat where pests are found or normally occur. Except as noted under "Food Handling Establishments", applications can be made in 7 day intervals. If necessary, Dursban Pro may be applied after 2 days from last treatment (call back treatments), but such use should be limited to once per month.

**Crack and Crevice Applications**

Use a low pressure system with a pinpoint or variable pattern nozzle to apply the spray mixture to areas such as: floors, cracks, and crevices in and around baseboards, walls, expansion joints, areas around water and sewer pipes, and voids formed by equipment or appliances.





**Spritz and Broadcast Applications**

Use a low pressure system with fan type nozzle to uniformly apply spot treatments in and around cupboards and between, beneath and behind equipment or appliances. Dursban Pro may be applied as a broadcast spray to carpeted floor areas for control of fleas, and as a spot treatment for control of ticks and carpet beetles.

**Note:** Thoroughly ventilating treated areas following broadcast treatments can reduce potential odors and speed drying. Ventilation in buildings with closed air circulating systems can be improved by adjusting ventilation systems to include outside air for about 24 hours.

**Cabinet Interiors:** When treating interiors of cabinets containing food or food utensils, remove or otherwise protect such items from contact with spray. Allow spray to dry before returning food or food utensils to treated cabinets. Prevent the above items from directly contacting treated surfaces. Shelf liners or similar material can provide adequate protection from treated surfaces. Thoroughly wash dishes, food utensils or food-contacting surfaces with soap and water if they are directly exposed to this product.

**Food Handling Establishments:** Dursban Pro may be applied in both food and nonfood areas of all types of food-handling establishments, i.e. food service, food processing and food manufacturing establishments. This includes, but is not limited to, restaurants, grocery stores, bakeries, bottling plants, canneries, and grain mills. See "Treatment Sites" for a more complete but not exhaustive listing.

**Note:** Applications of this product within food handling areas are limited to spot and crack and crevice treatments. Applications can be applied in 7 day intervals in restaurants and similar food service establishments and applied in 14 day intervals in other types of food handling establishments. If necessary, Dursban Pro may be applied after 2 days from last treatment (call back treatments), but such use should be limited to once per month.

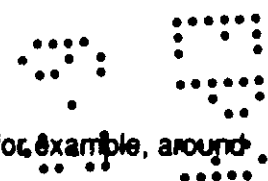
**Indoor Pests Controlled by Dursban Pro**

- |                      |                           |
|----------------------|---------------------------|
| Ants (1)             | Firebrats                 |
| Beetles              | Fleas (5)                 |
| Boxelder bugs        | Flour beetles             |
| (or other true bugs) | (Confused)                |
| Brown dog ticks (2)  | (Red)                     |
| Carpet beetles (3)   | (Sawtoothed)              |
| Centipedes           | Indian meal moths         |
| Clover mites         | Mediterranean flour moths |
| Cockroaches (4)      | Millipedes                |
| (American)           | Rice weevils              |
| (Asian)              | Silverfish                |
| (Brownbanded)        | Scorpions                 |
| (German)             | Sowbugs                   |
| (Oriental)           | Spiders                   |
| (Smokybrown)         | Ticks                     |
| Crickets             | and other insect pests    |
| Earwigs              |                           |

Superscripts-Numbers refer to "Specific Indoor Use Directions".

**Specific Indoor Use Directions**

1. Ants may be controlled by treating ant trails and wherever else these pests may find entrance; for example, around doors and windows.
2. Brown dog ticks may be controlled by applying spray to infested areas, nearby cracks and crevices, along baseboards, windows and door frames, where these pests may be present. For best results, old bedding should be removed or replaced with clean, fresh bedding after treatment. Do not treat pets with this product.
2. For the control of brown dog ticks, thoroughly apply the spray to infested areas, such as cracks and crevices along baseboards, windows and door frames, and areas of floor and floor coverings where these pests may be present. Non-carpeted flooring should only be treated with spot applications as necessary. Spots are defined as areas not to exceed two square feet. Old bedding should be replaced or thoroughly washed. Use a 0.5% spray at the rate of 1 gallon of diluted spray per 1600 square feet. **DO NOT TREAT PETS WITH THIS PRODUCT. Humans or pets should not contact treated surfaces for a minimum of 4 hours and until the spray has dried.**



- ~~3. Carpet beetles may be controlled by thoroughly applying the spray along baseboards and edges of carpeting; under carpeting, rugs and furniture; in closets and on shelving.~~
- ~~3. For the control of carpet beetles, thoroughly apply the spray to rugs, carpets, along baseboards and edges of carpeting, under carpeting, rugs and furniture, in closets and on shelving, and wherever else these insects are seen or suspected. Non-carpeted flooring should only be treated with spot applications as necessary. Spots are defined as areas not to exceed two square feet. Use a 0.5% spray at the rate of 1 gallon of diluted spray per 1600 square feet. Humans or pets should not contact treated surfaces for a minimum of 4 hours and until spray has dried.~~
- 4. Cockroaches can be controlled by making crack and crevice, and spot treatments. Treat where insects are found or normally occur including, but not limited to floors, cracks and crevices in walls, along and behind baseboards, around plumbing, floor drains and other utility installations, beneath and behind sinks, cabinets or other fixtures. Applications within food handling areas are limited to spot and crack and crevice treatments.
- 5. Fleas are best controlled by a total management program. It is suggested that infested areas indoors be thoroughly vacuumed prior to treatment. These areas include all carpet, upholstered furniture, baseboards and other indoor areas frequented by pets. The vacuum cleaner bag should be discarded in an outdoor trash container. Pet bedding should be cleaned or replaced.

Effective flea control includes controlling the source of flea infestations. This usually requires treatment of pets with a product registered for flea control on animals and treating outside areas frequented by pets. Durban Pro can also be applied outdoors for flea control.

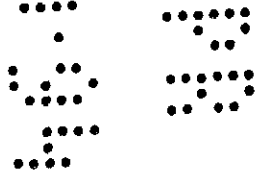
Indoor flea control is achieved by thorough coverage and deep carpet penetration. Volume of spray depends upon carpet density. Provide uniform coverage but do not soak treated areas. Entire carpets may be treated.

Thoroughly apply diluted Durban Pro to infested areas as broadcast or spot treatments. Use a 0.25% dilution at the rate of 1 gallon diluted spray per 800 to 1600 square feet depending upon carpet density. For medium to thick pile carpet, a 0.25% dilution applied at a rate of 1 gallon of diluted spray per 800 square feet has been shown to be most effective. For extended residual control a 0.5% dilution applied at a rate of 1 gallon of diluted spray per 1600 square feet may be used.

If fleas reappear within 1 to 2 weeks after treatment it is probably because they have hatched from their pupal (cocoon) stage or continue to be brought in from outdoors.

Other than the applicator, treated areas should be vacated during application. Cover aquaria and fish bowls and remove other pets. Do not permit humans or pets to contact treated areas until spray has thoroughly dried. Do not treat pets with this product.

- 5. To control fleas, thoroughly apply a fine-particle broadcast spray to infested areas, such as rugs and carpets. Vacuuming carpets prior to treatment may improve flea control. For light infestations, use a 0.25% dilution at the rate of 1 gallon of diluted spray per 1600 square feet. For heavy infestations or for extended residual control, use a 0.5% dilution at the rate of 1 gallon of diluted spray per 1600 square feet or a 0.25% dilution may be used at the rate of 1 gallon of diluted spray per 800 square feet. Do not use a 0.5% dilution at the rate of 1 gallon of spray per 800 square feet. An insect growth regulator may be added to achieve extended control of developing flea larvae and pupae. Non-carpeted flooring should only be treated with spot applications as necessary. Spots are defined as areas not to exceed two square feet. Cover aquarium and fish bowls and remove pets (cats, dogs, birds, etc.) from area prior to treating. Other than the applicator, treated areas should be vacated during application. Humans or pets should not contact treated surfaces for a minimum of 4 hours and until spray has dried. Old pet bedding should be replaced or thoroughly washed. **DO NOT TREAT PETS WITH THIS PRODUCT.** To control the source of flea infestations, pets inhabiting the treated premises should be treated with a flea control product registered for application to animals.



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**General Pest Control - Outdoors - Perimeter Treatments**

**Directions for General Use - Outdoors - Perimeter Treatments**

Dursban Pro is intended to be mixed with water and applied outdoors with pressurized sprayers as a general surface spray. The active ingredient in this product will provide effective residual control of pests listed on this label.

**Handling Procedures for General Use - Outdoors - Perimeter Treatments**

Do not allow Adults, children or pets on should not contact treated surfaces areas until spray has dried.

Keep out of fish pools or 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, nor use treated hay for livestock bedding.

**Treatment Sites**

When used in accordance to label directions Dursban Pro may be applied to and around outside surfaces of residential and nonresidential buildings and structures. Permitted areas of use include but are not limited to:

- |                     |                        |
|---------------------|------------------------|
| <u>crawl spaces</u> | lawns                  |
| decks               | ornamental plantings   |
| driveways           | patios                 |
| eaves               | refuse dumps           |
| fences              | walkways               |
| foundations         | walls                  |
| garages             | window and door frames |

~~Note: Dursban Pro has been successfully used to treat pests of numerous ornamental plants without causing serious phytotoxic injury. However, Environmental factors and plant species differences have significant effects on phytotoxic expression. The following species have displayed significant sensitivity to Dursban Pro: azaleas, camellias, poinsettias, rose bushes, and variegated ivy. Apply to these species at your own risk.~~

Note: Phytotoxicity: Environmental factors and varietal differences may affect phytotoxic expression. In situations where phytotoxicity potential is of concern, it is recommended that a small group of plants be sprayed and observed for 7 to 10 days to determine phytotoxic potential before treating large numbers of those plants.

**Dosage Rates**

Applications of 0.03% to 0.5% Dursban Pro can be made depending on pest species and method of application. See "Application Methods" for additional information.

**Mixing Directions**

To make a 0.03% water based spray, add 1 2/3 fl oz (49 ml) Dursban Pro per 10 gallons of spray. To make a 0.5% water based spray add 2 2/3 fl oz (79 ml) Dursban Pro per each gallon of spray.

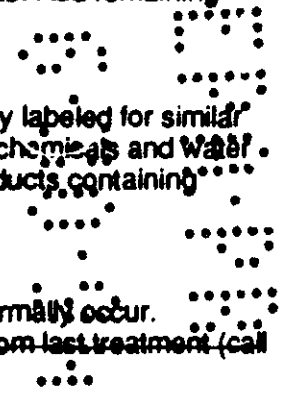
A stable micro-emulsion of Dursban Pro can be formed by first adding approximately one-half the water to the spray tank followed by adding the proper amount of Dursban Pro. Close the tank and agitate for 5 to 10 seconds. Add remaining water slowly to avoid excess foam.

**Tank Mixing**

Unless prohibited by a product's label, users, at their own discretion, can tank mix pesticides currently labeled for similar use patterns. It is always recommended that a small jar compatibility test using proper proportions of chemicals and water be run to check for physical compatibility prior to tank mixing. Do not tank mix this product with products containing dichlorvos (DDVP).

**Application Methods**

This product may be applied outdoors as a general surface spray. Treat where pests are found or normally occur. Applications can be made in 7 day intervals. If necessary, Dursban Pro may be applied after 2 days from last treatment (call back treatments), but such use should be limited to once per month.



**Low Volume Directed Sprays**

Application of low volume, high concentration (about 0.5%) sprays can quickly reduce localized heavy pest infestations on outside surfaces. Use a low pressure system with a pinpoint or variable pattern nozzle, such as a 1 gallon hand pump sprayer, and apply the spray mixture to specific areas such as cracks and crevices along walkways, patios, windows and door frames or other areas where insects may congregate or can gain entrance to the structure.

**High Volume Broadcast Sprays**

Application of high volume, low concentration (0.03% - 0.12%) sprays, such as with power spraying equipment, can help prevent infestation of buildings by reducing pests in outdoor areas. Longer residual is achieved at the higher rates (about 0.12%). To make a 0.03% water based spray, mix 8 2/3 fl oz (256 ml) of Dursban Pro per 50 gallons. To make a 0.12% dilution, mix 35 3/4 fl oz (1024 ml) of Dursban Pro per 50 gallons of water. This type of treatment provides more thorough coverage over large areas than low volume directed sprays. Treat by applying spray mixture directly to areas such as flower beds, junctions of soil and structural walls, along base of fences, and under eaves. Apply as a coarse spray at the rate of about 10 gallons spray mixture per 1000 square feet. Thoroughly and uniformly wet the treated area.

**Outdoor Pests Controlled by Perimeter Treatments of Dursban Pro**

- |                      |                           |
|----------------------|---------------------------|
| Ants                 | Elm leaf beetles          |
| Bees                 | (adults)                  |
| Beetles              | Fire ants (1)             |
| Boxelder bugs        | Fleas                     |
| (or other true bugs) | Flies                     |
| Carpenter ants       | Hornets                   |
| Centipedes           | Millipedes                |
| Clover mites         | Mosquitoes                |
| Cockroaches          | Pillbugs                  |
| (American)           | Scorpions (2)             |
| (Asian)              | Sowbugs                   |
| (Brownbanded)        | Spiders                   |
| (German)             | Springtails               |
| (Oriental)           | Ticks                     |
| (Smokybrown)         | Wasps                     |
| Crickets             | Yellowjackets             |
| Earwigs              | and other outdoor insects |

Superscripts Numbers refer to "Specific Outdoor Use Directions".

**Specific Outdoor Use Directions for Perimeter Treatments**

- ~~1. Fire ants may be controlled by applying the dilution to individual fire ant mounds as a drench treatment. Apply at a rate of 1 fluid ounce (30 ml) per each 2 gallons of spray mixture. Satisfactory results can be expected by applying 2 gallons of dilution per mound. Adjust volume according to mound size to avoid runoff. Allow 7 to 10 days to achieve maximum effectiveness. Whenever possible, avoid disturbing the mounds.~~
- ~~1. For individual fire ant mounds, apply Dursban Pro as a drench, diluted at the rate of 1 fl oz (30 ml) per 2 gallons of water.~~

Fire ant mounds may be controlled by applying Dursban Pro as a drench. Dilute 2 fl oz per 4 gallons of water. Gently sprinkle 1 to 2 gallons of the diluted insecticide over the surface of each mound and surrounding areas to a 2 foot diameter. For best results, apply in cool weather, 65 to 80°F, or in early morning or late evening hours. Treat new mounds as they appear. Pressurized sprays may disturb the ants and cause migration, reducing product effectiveness.

2. Scorpions may be controlled by removing accumulations of lumber, firewood and other materials serving as harborage sites. Before stacking firewood or lumber, apply Dursban Pro as a localized spray to surfaces immediately below such materials. Broadcast sprays outdoors may assist in reducing pests migrating from surrounding areas.

## **General Control of Wood-Infesting Insects**

### **Directions for General Use to Control Wood-Infesting Insects**

Dursban Pro is intended to be mixed with water and applied as a general surface or localized injection treatment with pressurized sprayers or other equipment suitable for applying insecticides to localized areas. ~~The active ingredient in this product can provide effective residual control of pests listed on this label.~~

### **Handling Procedures to Control Wood-Infesting Insects**

Contact with treated surfaces should be avoided until spray has dried.

Cover or remove exposed foods before treatment.

Before spraying remove pets and cover aquaria, i.e., fishbowls and turn off air pump.

Do not apply where electrical short circuits could occur.

Do not use in structures housing animals which are intended for or which produce products to be used for food purposes, i.e. poultry houses.

Thoroughly ventilating treated areas following broadcast treatments can reduce potential odors and speed drying.

Ventilation in buildings with closed air circulating systems can be improved by adjusting ventilation systems to include outside air ~~for about 24 hours~~.

### **Treatment Sites**

When used in accordance to label directions Dursban Pro can be applied to residential and nonresidential buildings and structures for control of wood-infesting insects. Permitted areas of use include but are not limited to:

- wood surfaces
- voids and channels in damaged wood
- gaps between wooden members
- wall voids
- junctions between wood and foundation

### **Dosage Rates**

Applications of 0.5% to 1.0% Dursban Pro can be made depending on pest species and method of application. Expect increased residual control at higher rates. See "Specific Use Directions For Control of Wood-Infesting Insects" for additional information.

### **Mixing Directions**

To make a 0.5% water based spray mix 2 2/3 fl oz (79 ml) of Dursban Pro per each gallon of spray mixture. To make a 1.0% water based spray mix 5 1/3 fl oz (158 ml) of Dursban Pro per each gallon of spray mixture.

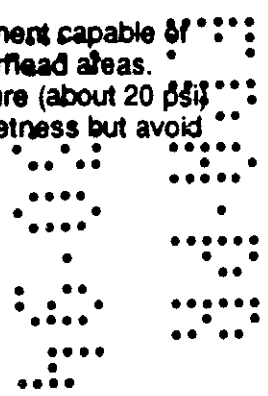
A stable micro-emulsion of Dursban Pro can be formed by first adding approximately one-half the water to a spray tank followed by adding the proper amount of Dursban Pro. Close the tank and shake vigorously for 5 to 10 seconds. To avoid excess foam, slowly add the remaining water.

### **Tank Mixing**

Unless prohibited by a product's label, users at their own discretion, can tank mix pesticides currently labeled for similar use patterns. It is always recommended that a small jar compatibility test using proper proportions of chemicals and water be run to check for physical compatibility prior to tank mixing. Do not tank mix this product with products containing dichlorvos (DDVP).

### **Application Methods**

This product may be applied either as a coarse spray or by brushing onto targeted surfaces. Equipment capable of delivering a coarse, low pressure (about 20 psi) spray is recommended for treatment of large or overhead areas. Inaccessible areas such as wall voids can be treated by injecting the spray mixture under low pressure (about 20 psi) through drilled openings. Use sufficient amount of spray dilution to cover the area to the point of wetness but avoid applying to the point of runoff.



**Overhead Areas**

It is recommended that, when spraying overhead interior living areas of residential buildings, surfaces below areas being treated be covered with plastic sheeting or other material which could be disposed of by placing in trash.

**Wood-Infesting Insects Controlled by Dursban Pro**

Beetles (1)

- (Anobiidae)
- (Bostrichidae)
- (Cerambycidae)
- (Lyctidae)

Carpenter ants and other wood-infesting ants (2)

Carpenter bees

Termites (3)

**Superscripts Numbers refer to "Specific Use Directions for Control of Wood-Infesting Insects".**

**Specific Use Directions for Control of Wood-Infesting Insects**

1. **Beetles** may be controlled by applying spray mixture to infested areas, or areas where infestations are likely to occur. This includes but is not limited to wood surfaces, voids, and channels in damaged wood, in spaces between wooden members of a structure, and junctions between wood and foundations. Use the following guidelines to determine appropriate rates of application:

New Wood, (typically less than 10 years of age) apply at about 1 gallon of dilution per 150 square feet.

Old Wood, (typically greater than 10 years of age) apply at about 1 gallon of dilution per 100 square feet.

2. **Wood-Infesting ants** may be controlled by applying spray mixture around doors and windows, cracks or crevices, or other areas where ants may enter, crawl, or hide.

Primary colonies are typically found outside through an exterior inspection. Correction of sanitation and structural deficiencies or landscape modifications may be necessary for effective control.

3. **Termites** can be treated by applying spray mixture to infested areas, or areas where infestations are likely to occur. This includes but is not limited to wood surfaces, voids and channels in damaged wood, in spaces between wooden members of a structure, and junctions between wood and foundations.

This treatment is intended to kill localized infestations of workers and winged reproductive forms of termites and to prevent infestation for a temporary period. This application is not intended as a substitute for soil treatments.

**Editor's note: The following section contains use patterns consistent with other EPA-accepted product labels for Dursban (chlorpyrifos).**

**General Pest Control - Turf, Ornamentals, and Fruit, Nut, and Citrus Trees**

**General Information**

Dursban Pro is an emulsifiable concentrate for use to control pests injurious to turf, ornamentals, and fruit, nut, and citrus trees. The pests controlled are listed in the accompanying tables. Dursban Pro 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.

**Handling Procedures:**

Adults, children or pets should not contact treated surfaces until the spray has dried.

Keep out of fish pools and other bodies of water.

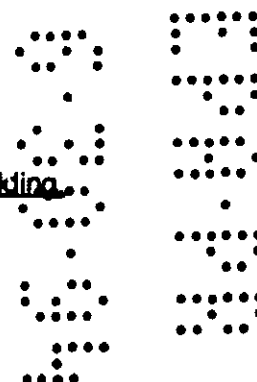
Do not treat vegetable gardens.

Do not allow livestock to graze in treated areas.

Do not feed treated grass cuttings (hay) or seed screenings to livestock nor use hay for livestock bedding.

Chemigation: do not apply this product through any type of irrigation system.

Fruit, nut, and citrus trees: see precautionary statements and restrictions in this section of the label.



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It is always recommended that a small jar compatibility test using proper proportions of chemicals and water be run to check for physical compatibility prior to tank mixing.

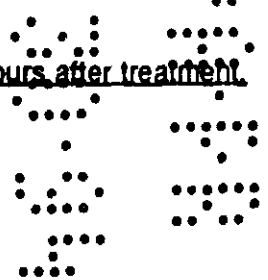
**Turf and Other Outdoor Uses**

Use Dursban Pro to control the pests listed in the following table by application at the recommended dosages. Dilute Dursban Pro in water and apply using suitable application equipment. For best results, turf should be moist at time of treatment.

Pest	Amount of Dursban Pro per	
	1000 sq. ft.	Acre
Ants	1 1/2 fl oz	2 qt
Armyworms (Such as: Beet, Fall, Yellowstriped)		
Centipedes		
Chiggers (1)		
Chinch bugs		
Crickets		
Cutworms		
Deer ticks (2)		
Earwigs		
European crane fly larvae		
Fiery skipper		
Fire ants (foraging workers)		
Fire ants (mounds) (3)		
Fleas		
Gnats		
Grasshoppers		
Greenbug aphids		
Green June beetle grubs		
Leathoppers		
Lucerne moth		
Millipedes		
Mites (Such as: Clover, Bermudagrass stunt, Winter grain)		
Mosquitoes (4)		
Pillbugs		
Sod webworms (lawn moths) (5)		
Sowbugs		
Ticks (1)		
Billbug adults (Such as: Bluegrass, Denver, Hunting) (6)	1 1/2 - 3 fl oz	2 - 4 qt
Annual bluegrass weevil ( <i>Hyperodes</i> ) (7)	3 fl oz	4 qt
Black turfgrass ataenius adults (8)		
Mole crickets (9)		
Mole crickets (10)	3 - 4 1/2 fl oz	4 - 6 qt
White grubs (Such as: Black turfgrass ataenius, European chafer, Japanese beetle larvae, and Northern and Southern masked chafers) (11)	3 - 6 fl oz	4 - 8 qt

**Specific Directions:**

1. Use Dursban Pro for area control of ticks and chiggers infesting non-cropland areas such as turf and grassy areas, roadsides, footpaths and trails, picnic and camping sites, parks and other recreational areas where these pests are present and create a nuisance or a possible public health problem. Do not allow public use of treated areas during application or until spray has dried. Apply Dursban Pro insecticide in water at the rate of 1 pint per acre (1/3 fl oz per 1000 sq. ft.) using a hydraulic sprayer, mist applicator, backpack sprayer, or other suitable hand or power operated spray equipment.
2. For control of deer ticks apply Dursban Pro in water at the rate of 2 quarts per acre or 1 1/2 fl oz per 1000 square feet. Treat low underbrush, turf, grassy areas, weeds, and ground surface and debris, using enough spray volume to obtain thorough coverage.
3. For individual fire ant mounds apply Dursban Pro as a drench. Dilute 2 fl oz per 4 gallons of water. Gently sprinkle 1 to 2 gallons of the diluted insecticide over the surface of each mound and surrounding areas to a 2 foot diameter. For best results, apply in cool weather, 65-80°F, or in early morning or late evening hours. Treat new mounds as they appear. Pressurized sprays may disturb the ants and cause migration, reducing product effectiveness.
4. Mosquitoes coming to rest on areas treated for control of turf pests will be controlled for varying periods of time after treatment depending on exposure of treated areas to weathering conditions.
5. For sod webworms, watering or mowing of the treated area should be delayed for 12 to 24 hours after treatment.



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- 6. For billbugs, spray early in the season just prior to, or coinciding with first appearance of adults as recommended by your local Agricultural Extension Service Specialist.
- 7. 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.
- 8. For black turfgrass ateenius adults, spray early in the season as recommended by your local Agricultural Extension Service Specialist. A repeat application may be needed 1 to 2 weeks later.
- 9. To control mole crickets in turfgrass, apply Dursban Pro through high pressure injection or other suitable subsurface placement application equipment. Depending on the application equipment used, follow the manufacturer's recommendation for calibration and the volume of spray per acre needed to provide control or as recommended by your local Agricultural Extension Service Specialist. For best results, apply when young nymphs are active.
- 10. To control mole crickets in turfgrass, apply Dursban Pro using broadcast or suitable hand-held application equipment. Application should be in a minimum of 50 gallons of water per acre. Turf must be irrigated within 24 hours after treatment to wash the insecticide into the area of insect activity. Apply when early stage nymphs are active. Effectiveness may be enhanced by spraying late in the afternoon or early evening and irrigating the turf within 24 hours prior to and following application to move mole crickets near the soil surface and wash the insecticide into the zone of insect activity.
- 11. For 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 deep into the thatch or underlying soil.

**Ornamentals (Outdoor)**

Use Dursban Pro to treat flowers, shrubs, evergreens, vines, shade and flowering trees, and non-bearing fruit trees found to be infested with the types of pests listed in the following tables. Dilute Dursban Pro with water according to directions given in the tables and apply using suitable hand or power-operated spray equipment in a manner to provide complete and uniform coverage. Attempt to penetrate dense foliage, but avoid over-spraying to the point of excessive runoff. Uniform coverage is critical for effective insect and mite control.

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

Note: Phytotoxicity: Environmental factors and varietal differences may affect phytotoxic expression. In situations where phytotoxicity potential is of concern, it is recommended that a small group of plants be sprayed and observed for 7 to 10 days to determine phytotoxic potential before treating large numbers of those plants.

