

2007-3724 14-DEC-2007

25-FEB-2008 Notification - Change in Registrant Name

10-SEP-2008 Notification - Product Name Change

Notification Change

BOTTLE LABEL

~~WILSON® PROFESSIONAL~~
~~Dursban*~~
~~Turf Insecticide~~

PRO® DURSBAN* TURF
INSECTICIDE

- Controls numerous pests of turf and ornamental plants, and for use by municipalities to control the native elm bark beetle.
- Controls Japanese beetle (larvae) infesting soil in which outdoor ornamentals (including containerized nursery stock) are growing.
- To be applied only by or under the direct supervision of commercial applicators responsible for insect control programs. Not intended for sale to or for use by homeowners. Do not formulate this product into other end use products.
- This product is not to be used in and around homes or other residential areas such as parks, school grounds, playing fields. It is not for use by homeowners or other uncertified users.

COMMERCIAL

REGISTRATION NO. 24945 PEST CONTROL PRODUCTS ACT

GUARANTEE: Chlorpyrifos 480 g/L

DANGER



POISON

READ THE LABEL AND PAMPHLET BEFORE USING
KEEP OUT OF REACH OF CHILDREN

NET CONTENTS: 4 L, 10 L, 205 L

Notification Change

~~Nu-Gro PR Inc.~~
~~10 Craig Street~~
~~Brantford, Ontario~~
~~N3R 7J1~~
519-757-0077

Agrium Advanced Technologies RP Inc.
10 Craig Street
Brantford ON
N3R 7J1

*Trademark of Dow AgroSciences LLC
Nu-Gro PR Inc. is a registered user.

Wilson® Registered Trademark of Spectrum Brands Canada, Inc., used under license.

REFER TO AND RETAIN PAMPHLET FOR “DIRECTIONS FOR USE”.

**PRECAUTIONS:
MAY BE FATAL IF SWALLOWED
HARMFUL IF ABSORBED THROUGH SKIN
DANGER - EYE IRRITANT
CAUSES SUBSTANTIAL BUT TEMPORARY EYE INJURY
CAUSES SKIN IRRITATION**

Avoid contact with eyes, skin and clothing. Wash thoroughly with soap and water after handling and before eating or smoking. Wear protective clothing, impervious gloves and goggles when handling. Remove contaminated clothing and wash before reuse. This product has been shown to be a skin sensitizer in laboratory animal studies. Repeated exposure may cause allergic reaction in sensitive individuals. If this should happen, discontinue use and consult a physician. Discard contaminated leather articles, including shoes. Avoid breathing vapours and spray mist. Use with adequate ventilation. Keep away from food, feedstuffs and water supplies.

PRECAUTIONS FOR MIXERS/LOADERS:

a) containers more than 10 L:

Mixers/loaders must use a closed mechanical transfer loading system. Mixers/loaders must wear:

- coveralls over a long-sleeved shirt and long pants
- chemical-resistant gloves
- an air purifying respirator with an -R or -P series filter
- socks and shoes

b) containers holding 10 L or less

Mixers/loaders must wear:

- coveralls over a long-sleeved shirt and long pants
- chemical-resistant gloves
- a chemical-resistant apron
- chemical-resistant footwear plus socks
- an air purifying respirator equipped with an -R or -P series filter

PRECAUTIONS FOR APPLICATORS:

Do not apply with high-pressure handwand equipment.

Do not apply as a paintbrush treatment for indoor uses.

Applicators using ground application equipment with a closed cab must wear:

- a long-sleeved shirt and long pants
- chemical-resistant gloves when leaving cab for clean up and repair (gloves must be removed when re-entering the cab)
- socks and shoes

Applicators using ground application equipment with an open cab must wear:

- coveralls over a long-sleeved shirt and long pants
- chemical-resistant gloves
- socks and shoes

Applicators using aerial application equipment must use enclosed cockpits and must wear:

- a long-sleeved shirt and long pants
-

- socks and shoes

Applicators using handheld equipment must wear:

- a long-sleeved shirt and long pants
- chemical-resistant coveralls and head protection (if spray is upwardly directed)
- chemical-resistant footwear and socks
- chemical-resistant gloves
- an air purifying respirator with an -R or -P series filter

Post-Application Workers (greenhouse ornamentals)

Re-entry Interval: Do not allow workers to conduct crop contact activities for two days after application.

FIRST AID:

Contains a petroleum distillate solvent. If swallowed, call a poison control centre or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give **any** liquid to the person. Do not give anything by mouth to an unconscious person

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 inhaled,** move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice. **If on skin or clothing,** take off contaminated clothing. Rinse skin immediately with plenty of water for 15–20 minutes. Call a poison control centre or doctor for treatment advice.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

TOXICOLOGICAL INFORMATION:

Chlorpyrifos is an organophosphate that is a cholinesterase inhibitor. Typical symptoms of overexposure to cholinesterase inhibitors include headache, nausea, dizziness, sweating, salivation, runny nose and eyes. This may progress to muscle twitching, weakness and tremors, incoordination, vomiting, abdominal cramps and diarrhea in more serious poisonings. A life-threatening poisoning is signified by loss of consciousness, incontinence, convulsions and respiratory depression with a secondary cardiovascular component. Treat symptomatically. Treatment based on judgement of the physician in response to reactions of the patient. If exposed, plasma and red blood cell cholinesterase tests may indicate degree of exposure (baseline data are useful). Atropine, only by injection, is the preferable antidote. Oximes, such as pralidoxime chloride, may be therapeutic if used early; however, use only in conjunction with atropine. In cases of severe acute poisoning, use antidotes immediately after establishing an open airway and respiration. With oral exposure, the decision of whether to induce vomiting or not should be made by an attending physician. If lavage is performed, suggest endotracheal and/or oesophageal control. Danger from aspiration must be weighed against toxicity when considering emptying the stomach. If burn is present, treat as any thermal burn, after decontamination.

NOTE: Product contains a petroleum distillate solvent.

AGRICULTURAL CHEMICAL:

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

USE PRECAUTIONS / ENVIRONMENTAL HAZARDS:

This product is toxic to birds and wildlife, and extremely toxic to fish and aquatic organisms. Do not apply directly to water. Drift and run-off from treated areas may be hazardous to aquatic organisms in adjacent aquatic sites. Cover or incorporate spills. Avoid contamination of aquatic systems during application. Do not contaminate these systems through direct application, disposal of waste or cleaning of equipment.

This product is toxic to certain beneficial insects. Minimize spray drift to reduce harmful effects on beneficial insects in habitats next to the application site such as hedgerows and woodland.

This product is highly toxic to bees exposed to direct treatment, drift, or residues on blooming plants. Do not use on flowering crops or weeds. **DO NOT** apply this product or allow it to drift to flowering crops or weeds if bees are visiting the treatment area. Applicators should inform local bee keepers prior to application if hives are in adjacent fields. Minimize spray drift to reduce harmful effects on bees in habitats close to the application site. Avoid spraying tree crown before mid-morning. Do not apply when birds are nesting in trees to be treated.

To reduce runoff from treated areas into aquatic habitats, consider the characteristics and conditions of the site before treatment. Site characteristics and conditions that may lead to runoff include, but are not limited to, heavy rainfall, moderate to steep slope, bare soil, poorly draining soil (e.g., soils that are compacted or fine textured such as clay).

Avoid application of this product when heavy rain is forecast.

Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip (buffer zone) between the treated area and the edge of the water body.

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

STORAGE:

Do not contaminate water, food or feed by disposal. Store in original container in secured dry storage area. Prevent cross-contamination with other pesticides and fertilizers. Do not store above 37° C for extended periods of time. Storage below 6.6° C may result in formation of crystals. If product crystallizes, store at 10 to 21° C and agitate to re-dissolve crystals. If container is damaged or spill occurs, use product immediately or dispose of product and damaged container as indicated below.

DISPOSAL:

1. Triple or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
 2. Follow provincial instruction for any required additional cleaning of the container prior to its disposal.
 3. Make the empty container unsuitable for further use.
 4. Dispose of the container in accordance with provincial requirements.
 5. For information on the disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for the clean-up of spills.
-

NOTICE TO USER: This pest control product is to be used only in accordance with the directions on the label. It is an offence under the Pest Control Products Act to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.

Notification Change

PAMPHLET

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DIRECTIONS FOR USE:

Do not formulate this product into other end use products.

PRO® DURSBAN* TURF INSECTICIDE

Notification Change

GENERAL INFORMATION:

~~Wilson Professional Dursban Turf Insecticide~~ is an emulsifiable concentrate designed for use as a spray to control various pests injurious to trees, turf and ornamental plants. The pests controlled are listed in the accompanying tables.

ATTENTION: Keep off treated areas until 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 area. Do not feed treated grass cuttings (hay) or seed screenings to livestock nor use hay for livestock bedding. Do not use in poultry houses.

PRO® DURSBAN* TURF INSECTICIDE

Notification Change

Pests of turf in golf courses, industrial sites, highway medians and sod farms.

Use ~~Wilson Professional Dursban Turf Insecticide~~ to control the pests listed in the following table by application at the recommended dosages and in accordance with the directions given below. Dilute ~~Wilson Professional Dursban Turf Insecticide~~ in enough water to obtain complete and uniform coverage of pest infested areas and apply as a coarse, low pressure spray using suitable application equipment.

Pest	Amount of Product per 100 m²	Specific Directions
Ants, Chinch Bugs, Cutworms Crane Fly Larvae (Leatherjackets)	22.5 mL 20–23 mL	Spray when pests first appear, repeat when needed. Apply as drenching spray in water in late fall after the flight of adult crane flies has ceased for the year.
Sod Webworms	22.5 mL	For sod webworms delay watering or mowing the treated area for 12 to 24 hours after treatment.

$22.5 \text{ mL} / 100 \text{ m}^2 = 112.5 \text{ mL} / 500 \text{ m}^2 = 225 \text{ mL} / 1000 \text{ m}^2$ or 2.25 L/ha

PRO® DURSBAN* TURF INSECTICIDE

Notification Change

PEST CONTROL AROUND NON-RESIDENTIAL BUILDINGS:

Apply ~~Wilson Professional Dursban Turf insecticide~~ by application as a residual spray around the outside of buildings as a perimeter soil treatment or localized areas on outside surfaces of industrial plants, manufacturing plants, warehouses, meat packing plants, food processing plants.

Pest	Amount of product per 100m²	Specific Directions
Ants Crickets Earwigs Millipedes Sowbugs (Pillbugs)	22.5 mL	To help prevent infestation of buildings treat a band of soil 2 to 3 m wide around and adjacent to the building foundation to a height of 50 cm to 1 m or use as a spot treatment where pests are active and may find entrance. Dilute in enough water to obtain complete and uniform coverage and apply as a coarse spray to thoroughly wet the band area.

PRO® DURSBAN* TURF INSECTICIDE

Pest	Spray Dilution	Specific Directions
Spiders Carpenter Ants Wasps Hornets Bees Boxelder Bugs Cluster Flies	0.48% solution (see spray dilution chart)	Close all windows. Apply Wilson Professional Dursban Turf Insecticide by handheld, backpack or hydraulic sprayer to nesting sites and other localized areas where pests congregate. In order to minimize drift, apply a coarse spray thoroughly wetting the surface but not allowing run-off to occur. This can best be achieved by utilizing low gun pressures to generate large droplets. Avoid repeat applications at intervals less than 50 days.

Notification Change

NATIVE ELM BARK BEETLE

NOTICE TO USER: This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.

Notification Change

RESTRICTED USE: To be used only under a provincial Dutch Elm Disease program. Consult provincial regulatory officials for required authorization.

PRO® DURSBAN* TURF INSECTICIDE

Prevention of Overwintering: To prevent the adult beetle from overwintering in uninfected trees and to reduce beetle populations in disease free areas, apply ~~Wilson Professional Dursban Turf Insecticide~~ as a 0.48% mixture of chlorpyrifos in water to the bottom 0.5 m of the trunk. Wet the trunk thoroughly, but do not spray to run off. Care should be taken to apply the spray right to the base of the root flare. Applications can be made with either backpack mist blower or a hydraulic pressure sprayer from spring through to the early fall.

1. Make only one application per season.
2. Bystanders should be advised to keep away from treated areas until residues are dry.
3. Do not apply next to water bodies. Highly toxic to fish and other aquatic organisms

Prevention of Branch and Twig Feeding on High Value Elm Trees: To reduce the twig and branch feeding on uninfected trees deemed to be high in value, apply a 0.48% chlorpyrifos spray to the tree crown. Application should be made in the spring or early summer using a sprayer that will give thorough coverage to the tree crown. Make only one application per season.

PRO® DURSBAN* TURF INSECTICIDE

The following **SPRAY DILUTION CHART** indicates the proper proportion of ~~Wilson Professional Dursban Turf Insecticide~~ to water to give a 0.48% chlorpyrifos solution.

Water	Wilson Professional Dursban Turf Insecticide
5 L	50 mL
10 L	100 mL
100 L	1 L
1000 L	10 L

Notification Change

For best results, the use of ~~Wilson Professional Dursban Turf Insecticide~~ should be incorporated into a total integrated Dutch elm disease control program, to include chemical treatment and necessary sanitation techniques.

PESTS OF ORNAMENTALS Commercial production only - greenhouses, nurseries, industrial sites:

PRO® DURSBAN* TURF INSECTICIDE

Use ~~Wilson Professional Dursban Turf Insecticide~~ to treat flowers, shrubs, vines, shade and flowering trees and evergreens found to be infested with the pests listed in the following table. Dilute ~~Wilson Professional Dursban Turf insecticide~~ with water according to directions given in the table and apply using suitable hand or power spray equipment in a manner to provide complete and uniform coverage. For best results apply a wetting spray to both upper and lower leaf surfaces and infested limb and trunk areas. Attempt to penetrate dense foliage but avoid overspraying to the point of excessive runoff. Treat when pests appear and repeat at 7 to 10 day intervals, if needed.

A re-entry interval of two days for workers conducting crop contact activities is required for use on Greenhouse Ornamentals.

PRO® DURSBAN* TURF INSECTICIDE

NOTE: Environmental factors have significant effects on phytotoxic expression. ~~Wilson Professional Dursban Turf Insecticide~~ has been tested on numerous ornamental plants without causing

Notification Change

serious phytotoxicity. However, do not use on azaleas, camellias, poinsettias, rose bushes or variegated ivy because of possible injury to these plants.

Pest	Amount of Product per 1000 L	Specific Host Plants
Spittlebugs	88-150 mL	various ornamental plants
Mealybugs	200 mL	various ornamental plants
Aphids	375 mL	beech, birch, elm, hickory, linden, maple, oak, pine, flowering cherry, flowering plum, spruce, tulip tree, viburnum, willow, spirea, nasturtium.
Clover Mite, European	375-500 mL	arborvitae juniper
Red Mite, Honey		
Locust Mite, Red Oak		
Mite, Spruce Spider		
Mite, Two-Spotted Spider Mite		
Borers such as Ash & Lilac Borers	500 mL	locust, birch, mountain ash, willow, lilac
Eastern and Forest Tent Caterpillars	500 mL	ash, birch
European Pine Sawfly	500 mL	conifers, mountain ash
Red Headed Pine Sawfly		
Grasshoppers	500 mL	various ornamental plants
Thrips	500 mL	various ornamental plants
Whiteflies	500 mL	various ornamental plants
Leafhoppers such as Potato and Six-Spotted Leafhoppers	1 L	various ornamental plants
Scale insects such as Lecanium, Cottony Maple, San Jose, Oystershell	2 L	various ornamental plants
Japanese beetle (larvae)	4.5 L	various ornamental plants

500 mL is equivalent to 240 g of chlorpyrifos per 1000 L
 1 L is equivalent to 480 g of chlorpyrifos per 1000 L
 2 L is equivalent to 960 g of chlorpyrifos per 1000 L

Notification Change

PRO® DURSBAN* TURF INSECTICIDE

JAPANESE BEETLE (LARVAE)

Apply to the soil when grubs are young and actively feeding near the soil surface, usually during late July, August, September or as recommended by your local agricultural representative. Use at rates given in the previous table. Dilute ~~Wilson Professional Dursban Turf Insecticide~~ in enough water to obtain complete and uniform coverage of pest infested areas. Apply as a coarse, low pressure spray using suitable application equipment. Immediately after spraying, irrigate the treated area with 1 to 2 cm of water to wash the insecticide into the underlying soil.

For container grown stock: spraying may also take place in April and May. Submerge the entire root ball or container in a solution of 45 mL ~~Wilson Professional Dursban Turf Insecticide~~/10 L water (4.5 L/1000 L) until all bubbling stops. Remove plants from solution and allow to drain.

Notification Change

PRO® DURSBAN* TURF INSECTICIDE

NOTICE TO USER: This pest control product is to be used only in accordance with the directions on the label. It is an offence under the Pest Control Products Act to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.

NATURE OF RESTRICTION

This product is to be used only in the manner authorized. Contact local pesticide regulatory authorities about use permits which may be required.

RESTRICTED USE - MOSQUITOES

MOSQUITOES: PRO® DURSBAN* TURF INSECTICIDE

Notification Change

~~Wilson Professional Dursban Turf emulsifiable insecticide~~ mixes readily with water or oil such as kerosene or No. 2 diesel fuel oil. ~~Wilson Professional Dursban Turf Insecticide~~ should be thoroughly mixed with the amount of water or oil required to give uniform coverage and applied to non-crop areas with suitable equipment such as hand or power sprayers, mist applicators. Use at rates given in the following table.

LARVAL CONTROL (MOSQUITOES):

Temporary Pools (e.g. shallow, grassy depression, flooded woodlands, industrial parks, roadway ditches, railway marshalling yards, small temporary sloughs).

NOT TO BE USED IN PERMANENT WATER BODIES SUCH AS: LAKES, DUGOUTS OR FISH PONDS.

GROUND: Apply uniformly to standing water. Spot applications may be made to catch basins, culverts, and similar areas where mosquitoes may breed. Application should be made when larvae are first noticed. Spray equipment must be properly calibrated to deliver the required amount of insecticide. Application equipment giving medium to coarse spray droplets should be used for mosquito larval control. The high rate (53 g ai/ha) should be used only if algal content or aquatic vegetation does not allow thorough penetration of spray solution or if multiple generations or asynchronous hatching of mosquitoes is expected. Use the lower rate (13 g ai/ha) if aquatic vegetation is not dense and thorough penetration of spray solution is expected.

1. Do not repeat more often than once every two weeks.
2. This pesticide is very highly toxic to fish and other aquatic organisms such as aquatic insects and crustaceans. Do not apply to permanent water bodies as these may contain fish and other aquatic organisms.
3. Apply only in accordance with federal provincial and local laws and regulations governing chemical treatment of bodies of water for control of mosquitoes.
4. Do not apply in areas where there may be potential exposure to bystanders.
5. This product should be applied at an appropriate distance from residences, hospitals, schools, parks, playfields, and playgrounds. This distance should be established by municipality/province.

Consult provincial pesticide regulatory officials for required authorization.

ADULT CONTROL (MOSQUITOES)

OUTDOOR AREA:

RESTRICTED USE: GROUND: Mix with the proper amount of water or oil (kerosene, No. 2 diesel oil) required to give uniform coverage and applied to non-crop areas with suitable equipment such as hand or power sprayers or mist applicators. Apply to wet grassy or wooded areas when adults first become a nuisance. Equipment giving fine sprays, mists or aerosol droplets will give best results. Retreat as required. Use the higher rate where vegetation is too dense to permit adequate penetration, the spray swath should be reduced to 50 m. Use 26-g/ha for light to medium vegetative cover, 53 g/ha for medium to heavy vegetative cover.

ONLY TO BE USED AFTER CONSULTATION WITH FEDERAL/PROVINCIAL/TERRITORIAL REGULATORY AUTHORITIES TO ADDRESS PUBLIC HEALTH CONCERNS.

Consult provincial pesticide regulatory officials for required authorization.

Notification Change

SPECIFIC APPLICATION EQUIPMENT: PRO® DURSBAN* TURF INSECTICIDE

For mistblowers, calculate application rates as in this example. For mistblowers calibrated to deliver 350 L per hour covering a spray swath of 100 m at a vehicle speed of 9 km per hour, use 5 to 10 L of ~~Wilson Professional Dursban Turf Insecticide~~ in 350 L of water. Use the higher rate where vegetation is dense. Where vegetation is too dense to permit adequate penetration, the spray swath should be reduced to 50 m. (See table following for rate of application.)

CONDITION OF AREA TO BE TREATED	AMOUNT TO USE PER HECTARE	
	Wilson Professional Dursban Turf Insecticide (mL)	Chlorpyrifos (g)
Larval Control None to medium vegetative cover or low organic matter	28-55	13-26
Medium to heavy vegetative cover or high organic matter	55-110*	26-53*
Adult Control Light to medium vegetative cover	55	26
Medium to Heavy vegetative cover	110*	53*

Notification Change

PRO® DURSBAN* TURF INSECTICIDE

*The higher dosage of ~~Wilson Professional Dursban Turf Insecticide~~ should be used only where vegetative cover is dense or where larval aquatic areas are high in organic matter. The use of this rate under conditions of little or no vegetation cover or low water organic content is harmful to fish or crustaceans and should be used where kill of these species can be tolerated.

RESTRICTED USE - FORESTRY - Western Canada only

Mountain pine beetle

For ground use only to control small infestations of mountain pine beetle in lodgepole pine forest stands. Monitor stand in the period mid-June to mid-July to determine the trees which are infested. Apply treatment to infested trees within a few weeks of the expected beetle emergence, usually early July, in order to kill the adult beetles. Avoid spraying when conditions favour drift from spray area.

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Use 1 L of ~~Wilson Professional Dursban Turf Insecticide~~ in 24 L of water (42 L in 1000 L of water) to make a spray containing 2% active ingredient by weight. Apply at a rate of 1 L spray/m² bark prior to adult beetle emergence. Treat boles from ground level up to a height of at least 3 metres or until a bole diameter of 12.5 cm is reached.

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