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Long-Legged P Solvents, i.f

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Specimen Label

Professional Turf Insecticide

To Be Applied Only by or Under the Direct Supervision of Commercial Applicators Responsible for Insect Control Programs. Sale to or Use by? 'Persons Owning or Occupying a Dwelling is Strictly Prohibited.'

Active Ingredient(s):

Chlorpyrifos [O,O-diethyl O-(3,5,6-trichloro-2-pyridyl) phospho Inert Ingredients

Contains 4 pounds of chlorpyrifos per gallon.

E.P.A. Registration No. 464-524

E.P.A. Est. 464-MI-1

KEEP OUT OF REACH OF CHILDREN

WARNING **AVISO:**

PRECAUCION AL USUARIO:

Si usted no lee inglés, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

MAY BE FATAL IF SWALLOWED ● EXCESSIVE ABSORPTION THROUGH SKIN MAY BE FATAL • CAUSES SUBSTANTIAL BUT TEMPORARY EYE INJURY . CAUSES SKIN IRRITATION

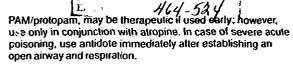
Do Not Get In Eyes, On Skin Or Clothing . Wear Eye Protection ● Avoid Breathing Vapors And Spray Mist ● Handle Concentrate In A Ventilated Area • Wear Protective Ciothing And Chemically Resistant Gloves

When Handling . Wash Thoroughly With Soap And Water After Handling And Before Eating Or Smoking • Remove Contaminated Clothing And Wash Before Reuse • Keep Away From Food, Feedstuffs And Water Supplies

STATEMENT OF PRACTICAL TREATMENT

If Swallowed: Call a physician or Poison Control Center immediately. Do not induce vomiting. Contains an aromatic petroleum solvent. Do not give anything by mouth to an unconscious person. If On Skin: Immediately wash with plenty of soap and water. Get medical attention. If In Eyes: Flush with plenty of water for 15 minutes. Get medical attention. If Inhaled: Remove to Iresh air if symptoms of cholinesterase inhibition appear and get medical attention immediately.

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-



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Physical or Chemical Hazards

COMBUSTIBLE ● Do Not Use or Store Near Heat or Open Flame. ● Do Not Cut or Weld Container.

Environmental Hazards

This pesticide is toxic to birds and wildlife, and extremely toxic to fish and aquatic organisms. Do not apply directly to water. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent aquatic sites. Cover or incorporate spills. Do not contaminate water by cleaning of equipment or disposal of waste. 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.

NOTICE

Read and understand the entire label before using, tise only according to label directions.

Before buying or using this product, read "WARRANTY LIM-ITATIONS AND DISCLAIMER" elsewhere on this label. If terms are not acceptable, return unopened package at once to seller for full refund of purchase price paid. Otherwise, use by the buyer or any other user constitutes acceptance of the terms under WARRANTY LIMITATIONS AND DISCLAIMER.

IN CASE OF AN EMERGENCY

endangering life or property involving this product, call collect 517-636-4400

AGRICULTURAL CHEMICAL Do Not Ship or Store with Food, Feeds, Drugs, or Clothing

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DIRECTIONS FOR USE

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

Do not formulate this product inv.

end-use products.

GENERAL INFORMATION

Professional 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. Professional Turf Insecticide 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 compatability before a large volume of spray is mixed.

Attention: Do not allow adults, children or pets on treated areas until spray has dried. Keep out of fishpools and other bodies of water. Do not treat vegetable gardens. Do not allow livestock to graze in treated areas. Do not feed treated grass cultings (hay) or seed screenings to livestock nor use hay for livestock bedding. Do not use in poultry houses.

Turf and Other Outdoor Uses

Use Professional Turf Insecticide to control the pests listed in the following table by application at the recommended dosages. Dilute Professional Turf Insecticide in water and apply as a coarse, low-pressure spray using suitable application equipment. Thoroughly water immediately after treatment to wash the insecticide into the turf, except as noted. For best results, the lawn should be moist at time of treatment. Spray when pests first appear; retreat when needed

, but not more than once per every 7 days.



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And Ce Ch Ch Ch Cri Cu Ea Fic Fir Flo Gri Jui Le Lu Mii Pillbugs Mo	Pest† Its (including foraging fire ants) myworm (Such as: Beet, Fall, Yellowstriped) enticedes iggers(1)	1000 sq. ft. 3'4 fl. oz.	Acre 1 qt.	Specific Directions 1. Use Professional Turf Insecticide for area control of Ticks and Chiggers infesting
And Ce Ch Ch Ch Cri Cu Ea Fic Fir Flo Gri Jui Le Lu Mii Pillbugs	myworm (Such as: Beet, Fall, Yellowstriped) entredes niggers(1)	3′4 fl. oz.	1 qt.	
: S p	ninch hugs over mites vickets utworms arwigs ery skipper re ants (mounds)(2) eas rasshoppers reenbugs ine beetles eathoppers reerne moth illipedes ites (Such as: Clover, Formula- orass, Winter, grain) osquitoes(3) od webworm(4) (lawn moths) owbugs omigtatis cks(1)		Insecti	non-crooland areas such as 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 Professional Turfin water at the rate of 1.2 pint per acre (equivalent to 1.2 ft. oz. per 2.700 sq. ft.) using a hydraulic sprayer, mist applicator, knapsack sprayer, or other suitable hand- or power-operated spray equipment. Treat low underbrush, grassy areas, weeds, and ground surface and debris using enough spray volume to obtain thorough coverage, usually 40 to 100 gallons per acre. For individual tire ant mounds, apply Professional Turf Insecticide as a drench, diluted at the rate of 1 ft. oz. (30 mt) per 4 gallons of water. Gently sprinkte a total of 1 gallon of the diluted emulsion over the surface of each mound using a gentle spray (such as a sprinkter can). Thoroughly wat moundaring areas to a 4 ft. diameter 12 sq. ft.). For best results, apply in cool weather, 65-80 F, or in early morning or late evening hours. Treat new mounds as
				late evening hours. Treat new mounds as they appear. Pressurized sprays may disturb the ants and cause migration, reducing product effectiveness.

ughly drench sound and surrounding i

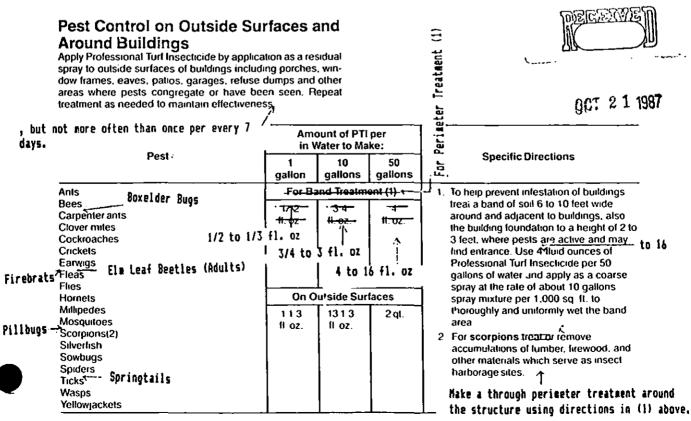
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†Numbers in parentheses refer to Specific Directions.

	Amount o	of PTI per		
Pest*	1000 sq. ft.	Acre	Specific Directions	
			3. Mosquitoes coming to rest on areas treated for control of turf pests will be killed for varying periods of time after treatment, depending on exposure of treated areas to weathering conditions. 4. The control of	
			For sod webworms delay watering or mowing the treated area for 12 to 24 hours after treatment.	
European crane fly	1 fl. oz.	112 qt.		
Turlgrass weevil (Hyperodes)(1)	112fl. oz.	2 qt.	Spray suspected problem areas in mid- April and again in mid-May or as recommended by your Local Agricultural Extension Service specialist.	
White grubs (Such as: Black turfgrass ataenius, European chafer, Southern masked chafer, and Japanese beetle tarvae)(1)	112 to 3 fi oz.	2 qt. to 1 gal.	For white grubs, spray when grubs are young and actively feeding near the soil surface, usually during tate July and August or as recommended by your local Agricultural Extension Service specialist. Immediately after spraying, irrigate the treated area with 1/2 to 1 inch of water to wash the insecticide into the underlying soil.	
Bluegrass billbugs(1)	3 4 to 3 fl. oz.	1 qt. to 1 gal.	For bluegrass billbugs spray early in the season when adults first appear. Retreat as needed.	

[†]Numbers in parentheses refer to Specific Directions.



the meeting parentheses refer to Specific Directions.

Clover mite

Ornamentals (Outdoor)

Use Professional Turf Insecticide to treat flowers, shrubs, evergreens, vines, shade and flowering trees found to be infested with pests listed in the following table. Dilute Professional Turf Insecticide with water according to directions given in the table and apply using suitable hand- or power-operated spray equipment in a manner to provide complete and uniform coverage. For best results apply a coarse spray to thoroughly wet both upper and lower leaf surfaces and intested 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. Do not use on fruit and nut trees that will bear fruit within 1 year of application.

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

Note: Ornamentals: Professional Turf Insecticide has been tested on numerous ornamental plants without causing serious phytotoxicity. However, do not use on azaleas, camellias, poinsettias, rose bushes, or variegated by because of possible injury to these plants.

	Amount of PTI per in Water to Make:			
Pest [;]	1 gallon	3 gallons	100 gallons	Specific Directions
Adelgids (Such as: Cooley and Eastern spruce galls, Pine bark) Ants (including foraging fire ants) Aphids (Such as: Apple, Chrysanthemum, Cottonwood, Elm leaf, Peach, Rose, Spirea, Woolly) Armyworms (Such as: Fall, Yellowstriped) Bagworms(1) Boxelder bugs Cankerworms Catalpa sphinx Chiggers Citrus mealybugs Elm spanworm Fall webworm (1-12 fl. oz.	1 4 fl. oz.	8 ft. oz.	1. For bagworms treat when insects are in the crawler stage. 2. For effective control of leafrollers spray should be applied before leaves are tightly rolled. 3. For effective control of maple leafcutter on mapte trees apply spray to larvae as cases are being formed. Do not treat sugar maple trees intended for maple syrup production. 4. 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. 5. Locate carpenter ant nest, if possible, and drench throughly. 6. For control of Fall Mebwora direct spinto web and immediately adjacent foliagent.
Beetles (FIMELIOSE, Native elm bark)(1) Culworms Leafhoppers Mahogany webworm Mealybugs	fl. əz.	fl. oz.	i pt.	bark beetles applications should be made in the spring cr early summer.

[†]Numbers in parentheses refer to Specific Directions.

Mimosa webworm

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De col	Amount of PTI per in Water to Make:				
Pest [‡]	1 gallon	3 gallons	100 gallons	Specific Directions	
Woths (Such as: Browntail, Cypress tip, Douglas fir tussock, European pine shool, Gypsy(2), Holly bud, Nantucket pine tip, Pandora, Pitch pine tip, Subtropical pine tip, Tussock) Dakworms (Such as: California, Orangestriped, Redhumped) Redhumped caterpillar Thrips (exposed) Weevils (Such as: Blackvine(3), Yellow Poplar, Pine reproduction)	1 6 (I. oz.	1.2 fl. oz	1 pt.	2. To kill migrating and invading gypsy moth larvae treat trunks and foliage 3. Blackvine weevils are night feeders. Late alternoon spraying will give control in some areas.	
3ecties (Such as: Cottonwood leak(1), Eim leaf, Fiea, Willow leaf)	1 6 to 1 3 fl. oz.	1 2 to 1 fi. oz	1 pt to 1 qt.	For cottonwood leaf beetles use Professional Turf Insecticide in water to control larvae and adults infesting cottonwoods. Make the treatment when field counts indicate damaging beetle populations are developing or present	
3orers(1): Clearwing moths (Such as: Ash, Dogwood, Lesser peachtree, Lilac, Oak, Rhododendron), Metallic wood (Such as: Bronze birch, Flatheaded appletree, Twolined chestnut), Longhorned beetles (Such as: Locust, Red cak) Cranberry girdler larvae(2)	1 3 fl. oz.	1 fl. oz.	1 qt	1. For borers, apply Professional Turf Insecticide to the trunks and lower limbs of trees and shrubs when the adults begin to emerge. Consult your State Agricultural Experiment Station or Extension Service specialist for proper time to treat. Apply uniformly as a coarse low-pressure spray.	
Leafminers Needieminers (Such as: Jeffrey pine, Lodgepole pine, Spruce) Scale crawlers (Such as: Cottonycushion, Cottonymaple, Euonymus, Fletcher, Florida wax, Golden oak, Hemispherical, Lecanium, Magnolia, Oak kermes, Oystershell, Pine needle, San Jose, Tea, White birch)				? For cranberry girdler larvae apply 1 quart of Professional Turf Insecticide per acre. Direct spray at the base of tree using 50 gallons of water per acre lirrigate immediately after application for soil penetration of 1-2 inches. Treat after egg laying during the summer.	
Borers (Such as: Cottonwood. Peachtree)(1)	1 11. oz.	3 fl. oz.	3 q1	For peachtree borers apply Professional Turf Insecticide in water to flowening trees and shrubs of the genus Prunus as a trunk spray before newly- hatched larvae enter the trees. Apply as a coarse, low-pressure spray Thoroughly wet all bark areas from ground level to scaffold limbs.	
Beetles(1) (Such as: Cottonwood teaf, Elm teaf, Ftea, Fuller rose, Native elm bark(2), Willow leaf)	1 1 3 fl. oz.	4 fl. oz.	1 gal.	1 For preventive treatment apply the spray to the main trunk of trees in the early spring or when threat of attack exists from nearby infested trees. For remedial treatment apply the spray to the main trunk of infested trees or logs when damage occurs but before adult beefles begin to emerge. 2. To prevent native elm bark beetles from overwintering in unintested trees, apply Professional Turf Insecticide ii, water to the bottom 9 feet of the 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. Application can be made with either a backpack mistblower or a hydraulic pressure sprayer from spring through to early fall.	

[†]Numbers in parentheses refer to Specific Directions.



	Amount of PTI per in Water to Make:			
Pest:	1 gallon	3 gallons	100 gallons	Specific Directions
Rood infesting Beetles (Such as: Ambrosia, Anobidae, Black turpentine, European elm bark, Japanese, June, Southern pine, Spruce)(1) Carpenter ants	2 2 3 fl oz.	8 II oz	2 gal.	For preventive treatment apply the spray to the main trunk of trees in the early spring or when threat of attack exists from nearby infested trees. For remedial treatment apply the spray to the main trunk of infested frees when damage occurs but before adult beetles begin to emerge.

^{*}Numbers in parentheses refer to Specific Directions.

Dormant Spray (Tree Pests)
Use Professional Turf Insecticide as a dormani or delayed dormant spray at the rates indicated to control the listed insects. Spray the entire tree to runoff using suitable ground spray equipment. Use the higher dosage of Professional Turf. Insecticide for severe infestations. Use oil as recommended by your State Agricultural Experiment Station or Extension Service specialist.

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

		ount of PTI Nater to Ma		Specific Directions
Pest	1 gallon	3 gallons	100 gallons	
Aphids (Such as: Mealy plum, Rosy apple, Woolly apple) Borer (Such as: Peach (wig) Culworms (Such as: Climbing) Leafrollers (Such as: Pandemis) Pear psylla adults Plant bugs Scale (Such as: San Jose)	1 12 to 1 6 ft oz.	1 4 to 1 2 fl. oz	1 2 to 1 pt	Tank mix with 1 to 2 gallons of petroleum spray oil recommended for dormant use in 100 gallons of water.

to dampen



STORAGE AND DISPOSAL

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

Storage: Store in original container in secured dry storage area. Prevent cross-contamination with other pesticides and lertilizers. Do not store above 100°F for extended periods of time. Storage below 20°F may result in formation of crystals. If product crystallizes, store at 50 to 70°F and agitate to redissolve crystals. If container is damaged or spill occurs, use product immediately or dispose of product and damaged container as indicated below.

Pesticide Disposal: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to tabel instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container Disposal: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

WARRANTY LIMITATIONS AND DISCLAIMER

The Dow Chemical Company warrants that this product conforms to the chemical description on the label and is reasonably lit for the purposes stated on the label when used in strict accordance with the directions therein under normal conditions of use. THIS IS THE ONLY WARRANTY MADE ON THIS PRODUCT, NO OTHER EXPRESS AND NO IMPLIED WAR-RANTY OF MERCHANTABILITY OR FITNESS FOR A PAR-TICULAR PURPOSE IS MADE OUTSIDE OF THIS LABEL. Therefore, neither this warranty nor any other warranty of merchantability or filness for a particular purpose, express or implied, extends to the use of this product contrary to label instructions (including conditions noted on the label, such as unlavorable temperatures, soil conditions, etc.), under abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes, etc.) or under continions not reasonably foreseeable to or beyond the control of seller.

When buyer or user suffers losses or damages resulting from the use or handling of this product (including claims based on contract, negligence, strict liability, or other legal theories), buyer or user must promptly notify in writing The Dow Chemical Company of any claims to be eligible to receive either remedy given below. The EXCLUSIVE REMEDY OF THE BUYER OR USER and the LIMIT OF LIABILITY of The Dow Chemical Company or any other seller will be one of the following, at the election of The Dow Chemical Company:

 Refund of purchase price paid by buyer or user for product bought, or

(2) Replacement of amount of product used.

The seller will not be liable for consequential or incidental damages or losses

The terms of this Warranty Limitations And Disclaimer cannot be varied by any written or verbal statements or agreements. Any employee or sales agent of the seller is not authorized to vary or exceed the terms of this Warranty Limitations And Disclaimer in any manner.

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RQ/INSECTICIDE LIQUID N.O.S. (Chlorpyrifos)
NA1993



THE DOW CHEMICAL COMPANY Midland, Michigan 48674 U.S.A.

*Trademark of THE DOW CHEMICAL COMPANY

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OCT 2 1 1987

SPECIMEN LABEL 86-1376 DATE CODE B1285 REPLACES 86-1376 DATE CODE A385 DISCARD PREVIOUS SPECIMEN LABELS

- REVISIONS INCLUDE:
 1) FRECAUTIONARY STATEMENTS
- 2) STATEMENT OF PRACTICAL TREATMENT 3) ENVIRONMENTAL HAZARD STATEMENT

- 4) STORAGE STATEMENT
 5) INGRED LATE STATEMENT