

Middle Panel

**ACCEPTED****JAN 14 1985**

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 5602-153

HUB STATES

DI-TOX R/C INSECTICIDE

TO BE APPLIED ONLY BY OR UNDER THE SUPERVISION OF PEST CONTROL OPERATORS, PUBLIC HEALTH ORGANIZATION AND OTHER TRAINED PERSONNEL RESPONSIBLE FOR INSECT CONTROL PROGRAMS.

Controls Numerous Pests of Households Including Cockroaches, Fleas, Ants, Ticks, Silverfish, Spiders, Carpet Beetles, etc.

## ACTIVE INGREDIENTS:

Chlorpyrifos (0,0-diethyl 0-3,5,6-trichloro-2-pyridyl) phosphorothioate)..... 12.0%

Aromatic petroleum derivative solvent..... 21.5%

INERT INGREDIENTS..... 66.5%

Contains 1 pound of chlorpyrifos per gallon.

EPA REG NO 5602-\_\_\_\_\_

EPA EST NO 5602-IN-01

KEEP OUT OF REACH OF CHILDREN

## WARNING

## PRECAUTIONARY STATEMENTS

## HAZARDS TO HUMANS

WARNING: Causes eye irritation. May be fatal if swallowed. Do not get in eyes, on skin or clothing. Do not breathe vapors or spray mist. Wash thoroughly after handling. Wash contaminated clothing before reuse. Keep away from food, feedstuffs and domestic water supplies. Keep container closed. Handle concentrate in a ventilated area.

## STATEMENT OF PRACTICAL TREATMENT

If Swallowed: Do not induce vomiting. Contains aromatic petroleum solvent. Call a physician immediately. If On Skin: In case of contact remove contaminated clothing and immediately wash skin with plenty of soap and water. If in Eyes: Flush eyes with

Note to Physician: Chlorpyrifos is a cholinesterase inhibitor. Test symptomatically. Atropine only by injection is an antidote.

## ENVIRONMENTAL HAZARDS

DI-TOX R/C INSECTICIDE is toxic to fish, birds and other wildlife. Do not apply directly to water. Do not contaminate water by cleaning of equipment or disposal of wastes.

## PHYSICAL OR CHEMICAL HAZARDS

## FLAMMABLE

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

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STATEMENT OF PRACTICAL TREATMENT

If Swallowed: Do not induce vomiting. Contains aromatic petroleum solvent. Call a physician immediately. If On Skin: In case of contact remove contaminated clothing and immediately wash skin with plenty of soap and water. If in Eyes: Flush eyes with plenty of water for at least 15 minutes. Call a physician.

Note to Physician: Chlorpyrifos is a cholinesterase inhibitor. Test symptomatically. Atropine only by injection is an antidote.

ENVIRONMENTAL HAZARDS

DI-TOX R/C INSECTICIDE is toxic to fish, birds and other wildlife. Do not apply directly to water. Do not contaminate water by cleaning of equipment or disposal of wastes.

PHYSICAL OR CHEMICAL HAZARDS

FLAMMABLE

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

In case of an emergency endangering life or property involving this product call collect:

317-636-5255

AGRICULTURAL CHEMICAL

Do Not Ship or Store with Food, Feeds, Drugs or Clothing.

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PRECAUCION Al Usuario Si usted no lee ingles, no use esta producto hasta qua la atiquerta le haya sido explicada amphamenta

TRANSLATION: (TO THE USER) If you cannot read English, do not use this product until the label has been full explained to you.

USE DIRECTIONS

IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELING.

PEST INDOORS

General Information: Use Di-Tox R/C Insecticide to control the pests indicated in the areas listed below by application as a 0.25% or 0.5% chloropyrifos spray: Use the 0.25% spray to control light infestations and the 0.5% spray to quickly reduce heavy infestations or as directed. To prepare the spray, dilute Di-Tox R/C Insecticide with water as shown in the following SPRAY DILUTION CHART. Repeat the treatment as needed.

SPRAY DILUTION CHART

Gallons of Spray Mixture Desired	Fluid Ounces of Secret Treatment L/C to Use	
	0.25% spray	0.5% spray
Water-base spray		
1	3	5 1/3
3	8	16
5	13 1/2	27
10	27	54

\*Note: 1 fluid ounce = 2 tablespoonsful = 6 teaspoonsful

NOTE: Where quick "knockdown" and/or "flushing action" is desired Dichlorovos (DDVP) or Pyrethrins may be added to the spray mixture containing Di-Tox R/C Insecticide. Consult labeling for the dichlorovos or pyrethrins product used to determine the amount needed to give the desired spray concentration. Also read and observe all use and handling precautions for these products. Do not use Di-Tox R/C in combination with dichlorovos (DDVP) or Pyrethrins for treatment of food areas of food handling establishments.

Application Within Food Handling Establishments (Places Other Than Private Residences in which Food is Held, Prepared or Served) Including but not limited to Restaurants, Grocery Stores, Bakeries, Bottling Plants, Commercial and Grain Mills: Use as a spot treatment in and around both food and nonfood areas to control cockroaches (including strains resistant to certain other insecticides, ants, crickets, firebrats, silverfish, spiders, and stored product insects such as confused Flour Beetles, saw-toothed grain beetles, Indian meal moths, rice weevils, Mediterranean flour moths and red flour beetles. Apply as a coarse low-pressure (20 psi or less) spray to localized areas where the above pests have been seen or suspected of hiding or entering. Apply only enough spray to

as shown in the following SPRAY DILUTION CHART. Repeat the treatment as needed.

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	0.25% spray	0.5% spray
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Application Within Food Handling Establishments (Places Other Than Private Residences in which Food is Held, Prepared or Served) Including but not limited to Restaurants, Grocery Stores, Bakeries, Bottling Plants, Commercial and Grain Meals: Use as a spot treatment in and around both food and nonfood areas to control cockroaches (including strains resistant to certain other insecticides, ants, crickets, firebrats, silverfish, spiders, and stored product insects such as confused Flour Beetles, saw-toothed grain beetles, Indian meal moths, rice weevils, Mediterranean flour moths and red flour beetles. Apply as a coarse low-pressure (20 psi or less) spray to localized areas where the above pests have been seen or are suspected of hiding or entering. Apply only enough spray to thoroughly cover the surface treated using special care to avoid unnecessary runoff. Do not introduce the spray into the air or allow the spray to contact food or food-contacting surfaces. Areas treated may include dark corners of rooms and closets, along and behind baseboards, beneath and behind stoves, refrigeration units and similar food preparation areas and equipment; floor drains, and around plumbing and other utility installations. For ants apply to ant trails and wherever these pests may find entrance. Spot treatment may include crack and crevice treatment by applying small amounts of material directly into openings leading to voids and hollow spaces in walls and on and around equipment legs and bases of equipment. Equipment capable of delivering a pinstream of insecticide should be used. Repeat treatment as needed but not more than once every 7 days in restaurants and similar food service establishments or more often than once every 4 days in other types of food handling establishments. In case of emergency (call back) Di-Tox R/C insecticide may be applied after 2 days from last treatment, but emergency use should be limited to once per month.

Application of this product in food handling establishments other than as a spot and/or crack and crevice treatment are not permitted.

Application Within Residences, Buildings Including Homes and Apartment Buildings and Within Nonfood Areas of Industrial, Institutions, and Commercial Buildings Including Hospitals, Stores, Manufacturing Plants and Warehouses. For Spot Treatment apply as a coarse spray or with a paintbrush to localized areas where cockroaches (including strains resistant to certain other insecticides), ants, clover mites, crickets, firebrats, silverfish, and spiders are found or normally occur including dark corners of rooms and closets, cracks and crevices in walls, along and behind baseboards, beneath and behind sinks, stoves, refrigerators and cabinets, around plumbing and other utility installations. For ants apply to ant trails, also around doors and windows and wherever else these pests may find entrance. For clovermites use a 0.5% spray only. Note a period of 4 to 7 days is normally required for maximum effect on cockroaches.

For control of carpet beetles. Thoroughly apply a 0.5% spray as a spot treatment 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.

For control of fleas and brown dog ticks, thoroughly apply a 0.5% spray as a spot treatment to infested areas such as pet beds and resting quarters: carpets, drapes, furniture and wherever else these insects are seen or suspected, nearby cracks and crevices, along and behind baseboards windows and door frames and localized areas of floor and floor covering where these pests may be present. Old bedding of pets should be removed and replaced with clean fresh bedding after treatment. DO NOT TREAT PETS WITH THIS PRODUCT. To control the source of flea infestation, pets inhabiting the treated premises should be treated with a product registered for application to animals.

Attention: (Pests Indoors): Do not apply water-base spray of this product in conduits, motor housings, junction and switch boxes or other electrical equipment because of possible shock hazard. Do not use in poultry houses or other animal buildings. Do not allow spray to contact food, feedstuffs and water supplies. Thoroughly wash dishes and food handling utensils with soap and water if they become contaminated by application of this product. Do not allow children or pets to contact treated surface until spray has dried. Remove pets and cover fishbowls (tanks) before spraying.

#### STORAGE AND DISPOSAL

- 1) PROHIBITIONS: DO NOT CONTAMINATE WATER, FOOD, OR FEED BY STORAGE OR DISPOSAL.
- 2) PESTICIDE STORAGE: Store in original container in a secured, dry storage area. Do not store above 120 F. Do not stack higher than two (2) pallets. If spill occurs, use immediately or dispose of as indicated below.
- 3) PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

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- 4) CONTAINER DISPOSAL:

PLASTIC: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

METAL: 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.

NOTICE: Seller warrants that the product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use but neither this warranty nor any other warrant of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE express or implied extends to the use of this product contrary to label instructions or under abnormal conditions or under conditions not reasonable foreseeable to seller and buyer assumes the risk of any such use.

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### PEST OUT-OF-DOORS

**General Information:** Use DI-TOX R/C insecticide for control of certain pest on outside surfaces of buildings and on lawns and ornamental plants for area control of ticks and chiggers and for mosquito control. Consult the following directions for dosage and application details to control the pests listed.

**Pests On Outside Surfaces of Buildings:** Use Di-Tox R/C insecticide at the rate of 5 1/3 fluid ounces per one gallon of water (0.5% chlorpyrifos emulsion) to control ants, clover mites, cockroaches, crickets, earwigs, fleas, flies, millipedes, mosquitoes, sowbugs, spiders, and ticks by application as a residual spray or with a paint brush to outside surfaces of buildings, including porches, screens, window frames, eaves, patios, garages, refuse dumps and other areas where these pests congregate or have been seen. Do not treat or allow the spray to contact plants (lawns, flowering plants, shrubs, trees, evergreens, etc) because of possible injury. Repeat treatment as needed to maintain effectiveness.

**NOTE:** To help prevent infestation of buildings by ants, crickets, earwigs, millipedes, and sowbugs (pillbugs), treat a band of soil 6 to 10 feet wide around and adjacent to the buildings, also the building foundation to a height of 2 to 3 feet where pests are active and many find entrance. Use 2 pints of Di-Tox R/C per 100 gallons of water and apply as a coarse spray at the rate of about 10 gallons spray mixture per 1000 sq. ft. to thoroughly and uniformly wet the band area.

**Pests of Lawns and other Ornamental and Recreational Turf Grass Areas:** Use Di-Tox R/C to control pests listed in the following table by application at the recommended dosages and in accordance with the directions given below. Dilute Di-Tox R/C 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. 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.

**Pest of Ornamentals:** Use Di-Tox R/C 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 Di-Tox R/C 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 pest appear and repeat at 7 to 10 day intervals, if needed.

**NOTE -** Do not use on azaleas, camelias, poinsettias, rose bushes, or variegated ivy because of possible injury to these plants.

**Dogwood Borer:** Apply Di-Tox R/C to the trunks and lower limbs of dogwood trees when the adults begin to emerge. Consult your State Agricultural Experimental Station or Extension Service specialist for proper time to

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**Dogwood Borer:** Apply Di-Tox R/C to the trunks and lower limbs of dogwood trees when the adults begin to emerge. Consult your State Agricultural Experimental Station or Extension Service specialist for proper time to treat in your area. Mix at the rate of one gallon of Di-Tox R/C in 100 gallons of water and apply uniformly on trees as a coarse, low-pressure spray.

**Peach Tree Borer:** Di-Tox R/C to flowering trees and shrubs of the Genus Prunes in water 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. Consult your State Agricultural Experimental Station or Extension Service specialist for proper time to treat in your area.

NOTE: Mosquitoes coming to rest on areas treated for control of turf and ornamental plant pests will be killed for varying periods of time after treatment, depending on exposure of treated areas to weathering conditions.

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**Attention (Lawn and Ornamental Plant Pests):** Keep children and pets off treated areas until spray has dried. Keep out of lawn and garden fishpools and other bodies of water.

**Native Elm Bark Beetle:** Prevention of Overwintering To prevent the adult beetle from overwintering in uninfected trees and to reduce beetle populations in disease-free areas, apply Di-Tox R/C insecticide as a 0.5% mixture of chlorpyrifos in 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. Applications can be made with either a back pack mist blower or a hydraulic pressure sprayer from spring through to the early fall. 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 0.5% chlorpyrifos water 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.

## DOSAGES AND DIRECTIONS for USE on TURF

PEST	Dosage DI-TOX R/C per 1000 sq. ft.	REMARKS
Ants, Armyworms, Brown dog tick, Chiggers, Chinch bugs, Clover mite, Crickets, Cut- worms, Earwigs, Fleas, Grass- hoppers, Sod Webworms, Ticks	3 fl oz	Spray when pests first appear; retreat when needed. For sod webworms delay watering or mowing the treated areas for 12 to 24 hours after treatment.
Turfgrass (Hyperodes) weevil	6 fl oz	Spray suspected problem areas in mid-April and again in mid- May or as recommended by your local Agricultural Extension Service specialist for your area
White grubs (European chafer and Japanese Beetle larvae only)	6 to 12 fl oz	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 your area. Immedi- ately after spraying, irrigate the treated area with 1/2 to 1 inch of water to wash the insecticide into the underlying soil.

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Bluegrass billbug	6 to 12 fl oz	Spray early in the season when adult first appear. Retreat as needed.

+1 1/2 fl. oz. per 1000 sq. ft. = 7 1/2 fl oz per 5000 sq. ft. = 1 pint  
per 10,700 sq. ft. = 2 quarts per acre.

Area Control of Ticks and Chiggers: Use Di-Tox R/C insecticide to control ticks and chiggers infesting non-cropland areas such as roadsides, foot-paths and trails, picnic and camping sites, parks and other recreational areas where these pests are present and create a nuisance or possible health problem. Apply Di-Tox R/C in water at the rate of 2 pints per acre (equivalent to 1 fl. oz per 2,700 sq. ft.) using a hydraulic sprayer, mist applicator, knapsack sprayer, or other suitable hand or power 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.

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Attention (Area Control of Ticks and Chiggers): Do not allow public use of treated areas during application or until spray has dried.

Imported Fire Ashs: Treatment of potted, containerized and balled and burlapped nursery stock. Use Di-Tox R/C to control imported fire ants in soil attached to roots of these plants by completely submerging the ball of soil in a tank containing Di-Tox R/C diluted at the rate of 16 fl. oz. per 100 gallons of water. Do not remove burlap wrap or plastic containers with drain holes prior to submerging. Keep soil submerged until complete saturation has occurred, normally about 30 seconds. Wear rubber gloves, boots and apron during this operation.

Treatment of fire ant mounds. Apply Di-Tox R/C as a drench diluted at the rate of 2 fl. oz. (30cc) per 2 gallon of water. Gently sprinkle a total of 1 gallon of the diluted solution over the surface of each mound using a sprinkler can. Thoroughly wet mound and surround area 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 they appear. Pressurized sprays may disturb the ants and cause migration, reducing product effectiveness.

Mosquitoes: Apply Di-Tox R/C Insecticide to mosquito-infested, non-crop areas according to the conditions and rates shown in the following table. Mix Di-Tox R/C with water using sufficient spray volume to give uniform coverage of area treated. Apply the spray using suitable application equipment such as hand and power ground sprayers, mist applicators, and aerial spray equipment.

Warning (Mosquito Control): Read complete Environmental and Use Precautions and consult your State Fish and Game Department before using this product for mosquito control

DOSAGES and DILUTIONS for USE on ORNAMENTAL PLANTS

PESTS CONTROLLED		Amount of Di-Tox R/C Insecticide in water to make		
		3 gallons	10 gallons	100 gallons
Aphids	Mites	1 fl. oz.	3.2 fl. oz.	2 pints*
Bagworms	Orangestripped oakworm			
Eastern tent caterpillar	Spittlebugs			
Fall webworm	Whiteflies			
Grasshoppers	Yellownecked caterpillar	2 fl. oz.	6.4 fl. oz.	2 quarts**
Cutworms	Mimosa webworm			
Leafhoppers	Redhumped caterpillar			
Mealybugs	Thrips (exposed)	4 fl. oz.	12.8 fl. oz.	4 quarts***
Ash borer	Scale crawlers:			
Lilac borer	Oak Lecanium			
Dogwood borer	Pine needle Tea			
	White Peach			

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Warning (Mosquito Control): Read complete Environmental and Use Precautions and consult your State Fish and Game Department before using this product for mosquito control

DOSAGES and DILUTIONS for USE on  
ORNAMENTAL PLANTS

PESTS CONTROLLED		Amount of Di-Tox R/C Insecticide in water to make		
		3 gallons	10 gallons	100 gallons
Aphids	Mites	1 fl. oz.	3.2 fl. oz.	2 pints*
Bagworms	Orangestripped oakworm			
Eastern tent caterpillar	Spittlebugs			
Fall webworm	Whiteflies			
Grasshoppers	Yellownecked caterpillar			
Cutworms	Mimosa webworm	2 fl. oz.	6.4 fl. oz.	2 quarts**
Leafhoppers	Redhumped caterpillar			
Mealybugs	Thrips (exposed)			
Ash borer	Scale crawlers:	4 fl. oz.	12.8 fl. oz.	4 quarts***
Lilac borer	Oak Lecanium			
Dogwood borer	Pine needle Tea			
	White Peach			
Peach tree borer		11.6 fl oz	38.4 fl. oz.	12 quarts***

\*Equivalent to 4 ounces of chlorpyrifos per 100 gallons

\*\*Equivalent to 8 ounces of chlorpyrifos per 100 gallons

\*\*\*Equivalent to 1 pound of chlorpyrifos per 100 gallons

\*\*\*\*Equivalent to 3 pounds of chlorpyrifos per 100 gallons.

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CONDITIONS and RATES to USE for MOSQUITO CONTROL

Condition of Area to be Treated	Amount to Use per Acre		Number Acres 1 gallon of Di-Tox R/C will treat
	Di-Tox R/C (fl. oz.)	Chlorpyrifos (Pounds)	
Larval Control None to medium vegetative cover	1.6 to 3.2	0.025 to 0.05	180 to 80
Medium to heavy vegetative cover	3.2 to 6.4*	0.05 to 0.1*	80 to 40
Adult Control Light to medium vegetative cover	3.2	0.05	80
Medium to heavy vegetative cover	6.4	0.1	40

\*The higher dosage will also give faster knockdown and longer residual control where there is little or no vegetative cover.