



# CHLORPYRIFOS 4E INSECTICIDE

Not Reviewed. Registrant claims to be in accordance with Reregistration of Pesticide Product Guidance for Phase 2 Response, Page 2.12. Active to Inert Change in Status.

### ACTIVE INGREDIENTS

Chlorpyrifos [O,O-diethyl O-(3,5,6-trichloro-2-pyridyl) phosphorothioate] ..... 41.2%  
INERT INGREDIENTS\* ..... 58.8%

TOTAL 100.0%

Contains 4 pounds of chlorpyrifos per gallon.  
\* This product contains xylene-range aromatics.

Controls Numerous Pests of Households, Turf, and Ornamental Plants. Also Recommended for Mosquito Control and Area Control of Ticks and Chiggers.

To Be Applied Only By or Under the Supervision of Pest Operators, Public Health Organizations, Mosquito Abatement Districts, and Other Trained Personnel Responsible for Insect Control Programs.

PRECAUCION AL USUARIO: Si usted no lee ingles, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.  
TRANSLATION: (TO THE USER: If you cannot read English, do not use this product until the label has been fully explained to you.)

## KEEP OUT OF REACH OF CHILDREN WARNING

See Below For Additional Precautionary Statements  
EPA REG. NO. 34704-66 EPA EST. NO. \_\_\_\_\_  
NET CONTENTS \_\_\_\_\_ GALLONS  
24852 EXP-1Y

## PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS & DOMESTIC ANIMALS WARNING

MAY BE FATAL IF SWALLOWED  
MAY BE ABSORBED THROUGH SKIN  
MAY BE INJURIOUS TO EYES AND SKIN

Do Not Take Internally • Do Not Get In Eyes or on Skin • Wash Thoroughly After Handling • Wash Contaminated Clothing Before Reuse • Flush Contaminated Eyes with Plenty of Water and Get Prompt Medical Attention • Avoid Breathing Vapors and Spray Mist • Avoid Spraying Food Crops • Keep Away from Food, Feedstuffs, and Domestic Water Supplies • Handle Concentrate in a Ventilated Area

Note To Physician: Chlorpyrifos is a cholinesterase inhibitor. Treat symptomatically. Atropine is an antidote.

### ENVIRONMENTAL HAZARDS

This product is highly toxic to bees exposed to direct treatment or residues on plants. Protective information may be obtained from your Cooperative Agricultural Extension Service.

CHLORPYRIFOS 4E is toxic to fish, birds, and other wildlife. Keep out of lakes, streams, ponds, tidal marshes and estuaries. Shrimp and crabs may be killed at application rates recommended on this label. Do not apply where these are important resources. Do not apply where runoff is likely to occur. Do not apply when weather conditions favor drift from areas treated. Do not contaminate water by cleaning of equipment, or disposal of wastes. Apply this product only as specified on this label.

### PHYSICAL & CHEMICAL HAZARDS

COMBUSTIBLE. Do Not Use, Pour, Spill, or Store Near Heat or Open Flame. Do not cut or weld container.

### DIRECTIONS FOR USE

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

Do not apply this product through any type of irrigation system.

### STORAGE AND DISPOSAL

PROHIBITIONS: Do not contaminate water, food, or feed by storage or disposal. Do not store under conditions which might adversely affect the container or its ability to function properly.

STORAGE: Store in safe manner. Store in original container only. Keep container tightly closed when not in use. Reduce stacking height where local conditions can affect package strength. Personnel should use clothing and equipment consistent with good pesticide handling.

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 label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: 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. 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.

### PESTS INDOORS

General Information: Use CHLORPYRIFOS 4E insecticide to control the pests indicated in the areas listed below by application as a 0.25% or 0.5% chlorpyrifos 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 CHLORPYRIFOS 4E with water or with a suitable base oil† as shown in the following SPRAY DILUTION CHART. Repeat the treatment as needed.

†Use only deodorized kerosene for oil-based sprays to be applied in food handling establishments.

### SPRAY DILUTION CHART

Fluid Ounces† of CHLORPYRIFOS 4E to Use

Gallons of Spray Mixture Desired	0.25% Spray	0.50% Spray
<b>Water-base spray:</b>		
1	2/3	1 1/3
3	2	4
5	3 1/3	6 2/3
10	6 2/3	13 1/3
<b>Oil-base spray††:</b>		
1	1/2	1
3	1 1/2	3
5	2 1/2	5
10	5	10

†Note: 1 fluid ounce = 2 tablespoonsful = 6 teaspoonful

††Calculated on basis of deodorized kerosene

Note: Where quick "knockdown" and/or "flushing action" is desired, dichlorvos (DDVP) or pyrethrins may be added to the spray mixture containing CHLORPYRIFOS 4E insecticide. For best results, use dichlorvos at a concentration of 0.25% in both water and oil-base sprays; use pyrethrins at 0.25% in water-base and 0.50% in oil-base sprays. Consult labeling for the dichlorvos or pyrethrins product used to determine the amount needed to give the desired spray concentration. Always read and observe all use and handling precautions for these products. Do not use CHLORPYRIFOS 4E in combination with dichlorvos (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, Processed, Prepared or Served) Including, But Not Limited to, Restaurants, Grocery Stores, Bakeries, Bottling Plants, Canneries and Grain Mills: Use as a spot treatment to control cockroaches (including strains resistant to certain other insecticides), ants, crickets, firebrats, silverfish and spiders in and around both food and nonfood areas by application as a

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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 surfaces 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 encompass crack and crevice treatment by applying small amounts of material directly into openings leading to voids and hollow spaces in walls, equipment legs and bases or which occur at points between different elements of construction or between equipment and floors. 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 14 days in other types of food handling establishments. In case of emergency (call back), CHLORPYRIFOS 4E may be applied after 2 days from last treatment but emergency use should be limited to once per month.

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

**Application Within Residential Buildings Including Homes and Apartment Buildings and Within Nonfood Areas of Industrial, Institutional, and Commercial Buildings Including Hospitals, Stores, Manufacturing Plants and Warehouses:** For Spot Treatment Only—Apply as a coarse spray or with a paint brush 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 clover mites 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 brown dog ticks, thoroughly apply a 0.5% spray as a spot treatment to infested areas such as pet beds and resting quarters, nearby cracks and crevices; along and behind baseboards, window 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.

**ATTENTION (Pests Indoors):** Do not apply water-base sprays of this product in conduits, motor housings, junction and switch boxes or other electrical equipment because of possible shock hazard. If there is need to treat such areas use only oil-base sprays. Prior to application de-energize electrical equipment. After application allow time for oil to evaporate before starting motors or placing switches in the "ON" position. 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 surfaces until spray has dried. Remove pets and cover fish bowls (tanks) before spraying.

## PESTS-OUT-OF-DOORS

**General Information:** Use CHLORPYRIFOS 4E for control of certain pests of 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 of Lawns and other Ornamental and Recreational Turf Grass Areas:** Use CHLORPYRIFOS 4E to control the pests listed in the following table by application at the recommended dosages and in accordance with the directions given below. Dilute CHLORPYRIFOS 4E 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.

## DOSAGES AND DIRECTIONS FOR USE ON TURF

Pest	Dosage		Remarks
	CHLORPYRIFOS 4E		
	per 1000 sq. ft.		
Ants	3/4 fl. oz.		Spray when pests first appear; re-treat when needed. For sod webworms delay watering or mowing the treated area for 12 to 24 hours after treatment.
Armyworms			
Brown dog ticks			
Chiggers			
Chinch bugs			
Clover mite			
Crickets			
Cutworms			
Earwigs			
Fleas			
Grasshoppers			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.
Sod webworms			
Turfgrass (Hyperpdes) weevil	1 1/2 fl. oz.		For white grubs spray when grubs are young and actively feeding near the soil surface, usually during July and August or as recommended by your local Agricultural Extension Service specialist for your area. Immediately after spraying, irrigate the treated area with 1/2 to 1 inch of water to wash the insecticide into the underlying soil
White grubs (European chafer and Japanese beetle larvae only)	1 1/2 to 3 fl. oz.		

3/4 fl. oz. per 1000 sq. ft. = 3 3/4 fl. oz. per 5000 sq. ft. = 1/2 pint per 10,700 sq. ft. = 1 quart per acre.

**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 building, also the building foundation to a height of 2 to 3 feet, where pests are active and may find entrance. Use 2 1/2 fluid ounces of CHLORPYRIFOS 4E per 100 gallons of water and apply as a coarse spray to thoroughly and uniformly wet the band area.

**Pests of Ornamentals:** Use CHLORPYRIFOS 4E to treat flowers, shrubs, vines, shade and flowering trees and evergreens found to be infested with the pests listed in the following table. Dilute CHLORPYRIFOS 4E 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.

**Note—**Do not use on azaleas, camellias, poinsettias, rose bushes, or variegated ivy because of possible injury to these plants.

**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.

**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.

**Area Control of Ticks and Chiggers:** Use CHLORPYRIFOS 4E to control ticks and chiggers infesting non-cropland 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 possible public health problem. Apply CHLORPYRIFOS 4E in water at the rate of 1/2 pint per acre (equivalent to 1/2 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 with enough spray volume to obtain thorough coverage usually 40 to 100 gallons per acre.

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

## DOSAGES AND DILUTIONS FOR USE ON ORNAMENTAL PLANTS

Pests Controlled	Amount of Chlorpyrifos 4E in Water to Make		
	3 gallons	10 gallons	100 gallons
Aphids	0.25 fl. oz.		
Bagworms	0.8 fl. oz.		
Eastern tent caterpillar	0.8 fl. oz.		
Fall webworm	0.8 fl. oz.		
Grasshoppers	0.8 fl. oz.		
Mites	0.25 fl. oz.		
Orangestriped oakworm	0.25 fl. oz.		
Spittlebugs	0.25 fl. oz.		
Whiteflies	0.25 fl. oz.		
Yellownecked caterpillar	0.25 fl. oz.		

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Pests Controlled	Amount of Chlorpyrifos 4E In Water to Make		
	3 gallons	10 gallons	100 gallons
Cutworms	Mimosa webworm		
Leafhoppers	Redhumped caterpillar	0.5 fl. oz.	1.6 fl. oz. 1 pint††
Mealy bugs	Thrips (exposed)		
Ash borer	Scale crawlers		
Lilac borer	Oak lecanium		
	Pine needle	1.0 fl. oz.	3.2 fl. oz. 1 qt.†††
	Tea		
	White peach		

†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

## MOSQUITO CONTROL

Mosquitoes: Apply CHLORPYRIFOS 4E to mosquito infested, non-crop areas according to the conditions and rates shown in the following table. Mix CHLORPYRIFOS 4E with either water or oil, such as kerosene or No. 2 fuel oil, 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.

Do not apply to water used for irrigation, recreational and domestic purposes.  
 Do not apply where fish and other aquatic life are important resources.

## CONDITIONS AND RATES TO USE FOR MOSQUITO CONTROL

Condition of Area to be Treated	Amount to Use per Acre		Number Acres 1 Gallon of Chlorpyrifos 4E Will Treat
	Chlorpyrifos 4E (fluid ounces)	Chlorpyrifos (pounds)	
Larval Control			
None to medium vegetative cover	0.4 to 0.8	0.0125 to 0.025	320 to 160
Medium to heavy vegetative cover	0.8 to 1.6†	0.025 to 0.05†	160 to 80
Adult Control			
Light to medium vegetative cover	0.8	0.025	160
Medium to heavy vegetative cover	1.6†	0.05†	80

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

## NOTICE

Platte warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for the purposes stated on such label only when used in accordance with the directions under normal use conditions. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Platte. In no case shall Platte be liable for consequential, special or indirect damages resulting from the use or handling of this product. All such risks shall be assumed by the buyer. Platte makes no warranties of merchantability or fitness for a particular purpose nor any other express or implied warranty except as stated above.

