

**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMANS**

**MAY BE ABSORBED THROUGH SKIN. MAY BE IRRITIOUS TO EYES AND SKIN**

Do not breathe vapors. Do not get in eyes or on skin. Avoid contact with skin. Wash contaminated skin immediately. Wash contaminated eyes with plenty of water and get prompt medical attention. Avoid breathing vapors and spray mist. Avoid contact with food, feedstuffs, and water. Keep container closed when not in use. Do not enter contaminated area.

**STATEMENT OF PRACTICAL TREATMENT**

1. **SAFETY:** Wear protective clothing. Contains irritant vapors. Consult a physician immediately.

2. **SKIN:** Wash contaminated skin immediately with soap and water.

3. **EYES:** Wash with plenty of water. Call a physician.

4. **PHYSICIAN:** Chlorpyrifos is a cholinesterase inhibitor. Symptoms include: Atropine is the antidote.

**HAZARDS TO OTHER CHEMICAL HAZARDS**  
**FLAMMABLE**

Highly flammable liquid. Vapor may form explosive mixtures with air.

**ENVIRONMENTAL HAZARDS**

Chlorpyrifos is toxic to fish, aquatic invertebrates, and birds. Do not apply to water bodies. Do not apply to areas where waterfowl are present. Do not apply to areas where bees are present.

Chlorpyrifos is toxic to plants. Do not apply to ornamental plants. Do not apply to lawns. Do not apply to areas where children play. Do not apply to areas where livestock graze. Do not apply to areas where waterfowl are present. Do not apply to areas where bees are present.

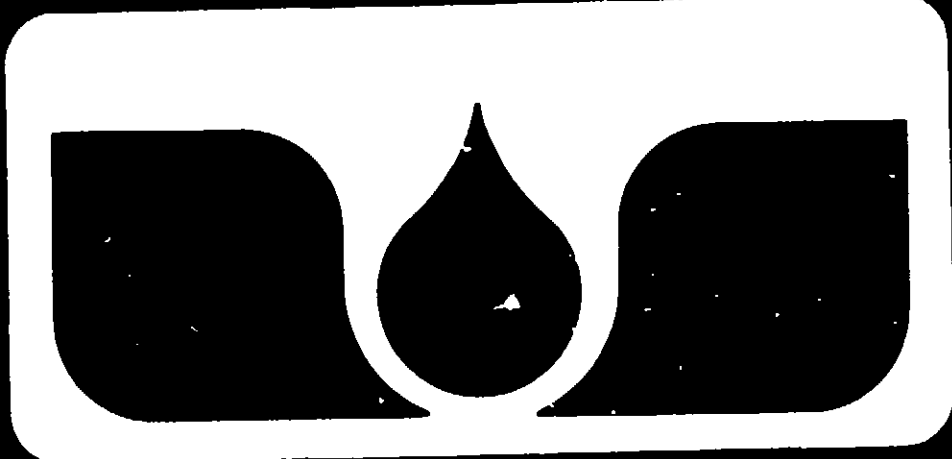
**DIRECTIONS FOR USE**

Read entire label. Follow directions. Do not use if directions are not present with its labeling.

**READ THESE ENTIRE DIRECTIONS AND DIRECTIONS FOR USE STRICTLY IN ACCORDANCE WITH LABEL PRECAUTIONARY STATEMENTS AND DIRECTIONS.**

**PESTS INDOORS**

Apply to cracks, crevices, and other harborage areas. Apply to baseboards, door frames, window frames, and other areas. Apply to areas where insects are present. Apply to areas where insects are likely to be present. Apply to areas where insects are likely to be present. Apply to areas where insects are likely to be present.



**AGWAY**

**DURSBAN\* 2EC**

**Controls Pests of Households, Turf, Ornamental Plants as listed on this label — Also recommended for Mosquito Control and Area Control of Ticks.**

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

**Contains 2 pounds of chlorpyrifos per gallon**

**ACTIVE INGREDIENT**

Chlorpyrifos (O, O diethyl O 3,5-dichloro-2-pyridyl phosphorothioate) 22.4%

**INERT INGREDIENTS\*\***

\*\* Contains xylene, naphthalene, aromatic solvent. 77.6%

\*DURSBAN\* - registered trademark of the Dow Chemical Company. — U.S. Patent No. 3,244,585

**KEEP OUT OF REACH OF CHILDREN**  
**WARNING AVISO**

See Side Panel for Additional Precautionary Statements

Agway Inc., P. O. Box 4741, Syracuse, NY 13221

**Net Contents 2-1/2 Gals.**

**BEST AVAILABLE COPY**

**ACCEPTED**

### SPRAY DILUTION CHART

Gal of Spray Mixture Desired	Fluid Oz. of Dursban 2EC to Use	
	0.25% spray	0.5% spray
<b>Water-base spray:</b>		
1	1 1/2	1 1/2
3	4	8
5	6 1/2	13 1/2
10	13 1/2	26 1/2
<b>Oil-base spr. **:</b>		
1	1	2
3	3	6
5	5	10
10	10	21

\*Note: 1 fluid ounce = 2 table-spoonfuls = 6 tea-spoonfuls. Use only deodorized kerosene for oil based sprays to be applied in food handling establishments.

\*\* Calculated on basis of deodorized kerosene.

NOTE: Where quick "knockdown" and/or "flushing action" is desired, dichlorvos (DDVP) or pyrethrins (synergized pyrethrum) may be added to the spray mixture containing Dursban 2EC 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 sprays and 0.05% in oil-base sprays. Consult labeling for the dichlorvos 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.

**Applications 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 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, sawtoothed 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 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), Dursban 2EC 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.

**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 deenergize electrical equipment. After application allow time for oil to evaporate before starting motors or placing switches in the "ON" position. For Spot Application Only Do not use in poultry houses, other animal buildings or in edible products areas of food processing plants, restaurants, or other areas where food is commercially prepared or processed. Do not use in serving areas while food is exposed. 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 OUTDOORS:

**General Information:** Use Dursban 2EC for control of certain pests of lawns and ornamental plants, for area control of ticks 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 Dursban 2EC at the rate of 1 1/2 fluid ounces per one gallon of water (0.5% of 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 treatments as needed to maintain effectiveness.

**Pests of Lawns and other Ornamental and Recreational Turf Grass Areas:** Use Dursban 2EC insecticide to control ants, brown dog ticks, chinch bugs, crickets, cutworms, earwigs, grasshoppers and sod webworms (lawn moths). Mix Dursban 2EC with water according to directions given in the following table and apply as a coarse, low pressure spray using suitable application equipment. For best results, the lawn should be moist at time of treatment, and care should be taken to obtain complete and uniform coverage of pest infested areas. Spray when pests first appear; retreat when needed.

### DOSAGE & DILUTIONS FOR USE ON TURF

Area to be Treated	Amount of Dursban 2EC	Dilute with Water To Give
500 sq. ft.	3/4 fl. oz.	15 gallons
1,000 sq. ft.	1 1/2 fl. oz.	30 gallons
5,000 sq. ft.	7 1/2 fl. oz.	150 gallons
10,700 sq. ft.	1 pint	325 gallons
One Acre	2 quarts	1,300 gallons

### DOSAGES AND DIRECTIONS FOR USE ON TURF

Pest	Dosage Dursban 2EC diluted in 30 gal water per 1,000 sq. ft.	Remarks
Turfgrass (Hyperodes) Weevil	3 fl. oz.	Spray suspected problem areas in mid-April and again in mid-May or as recommended by your local Agricultural Extension Service specialist in your area.
White grubs (including European chafers, southern masked chafers and Japanese beetle larvae)	3 to 6 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. Immediately after spraying, irrigate the treated area with 1/2 to 1 inch of water to wash the insecticide in the underlying soil.

### DOSAGES AND DIRECTIONS FOR USE ON TURF

Pest	Dosage Dursban 2EC per 1,000 sq. ft.	Remarks
Ants	1 1/2 fl. oz.	Spray when pests first appear, retreat when needed. For sod webworms delay
Armyworms		
Chiggers		
Chinch bugs		

**BEST AVAILABLE COPY**

Clover mite  
Crickets  
Cutworms  
E. wigs  
Fleas  
Grasshoppers  
Sod webworms  
Ticks

watering or mowing  
the treated area for  
12 to 24 hours after  
treatment

Bluegrass billbug	3 to 6 fl. oz.	Spray early in the season when adults first appear. Retreat when needed.
-------------------	----------------	--

\* 1 1/2 fl. oz. per 1,000 sq. ft. = 7 1/2 fl. oz. per 5,000 sq. ft. = 1 pint per 10,700 sq. ft. = 2 quarts per acre.

**NOTE:** To help prevent infestation of buildings by ants, earwigs, crickets, 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 the same dosage and dilution recommended for control of these pests on turf as shown in the above table. Apply as a coarse spray to thoroughly and uniformly wet the band area.

**Pests of Ornamentals:** Use Dursban 2EC to control bagworms, cutworms, grasshoppers, leafhoppers, mealybugs, mites, spittlebugs, thrips (exposed) and whiteflies on flowers, shrubs, vines, shade and flowering trees and evergreens found to be infested with these pests. Dilute Dursban 2EC with water according to directions given in the following table and apply using suitable hand or power spray equipment in a manner to provide complete and uniform coverage of infested plants. 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.

**DOSAGE AND DILUTIONS FOR USE ON ORNAMENTAL PLANTS**

Pests Controlled	Amount of Dursban 2EC in Water To Make			
	3 gals	10 gals	100 gals	
Aphids	Mites	0.5	1.6	1 pint*
Bagworms	Orange-striped	fl. oz.	fl. oz.	
Eastern tent caterpillar	Spittlebugs			
Fall webworm	Whiteflies			
Grasshoppers	Yellow-necked caterpillar			
Cutworms	Mimosa	1.0	3.2	1 qt.**
Leafhoppers	webworm	fl. oz.	fl. oz.	
Mealybugs	Red-humped caterpillar			
	Thrips (exposed)			

\* Equivalent to 4 ounces of chlorpyrifos per 100 gallons  
\*\* Equivalent to 8 ounces of chlorpyrifos per 100 gallons

**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.

**Wood Boring Insects Infesting Shrubs and Trees** such as Dogwood Borer, Lilac Borer, Ash Borer, Bronze Birch Borer, and Rhododendron Borer: Apply Dursban 2EC 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 in your area. Mix at the rate of two quarts of Dursban 2EC in 100 gallons of water and apply uniformly as a coarse, low-pressure spray.

**DOSAGES AND DILUTIONS FOR USE ON ORNAMENTAL PLANTS**

Pests Controlled	Amount of Dursban 2EC in Water To Make		
	3 gals	10 gals	100 gals
Ash borer	2.0	6.4	2 quarts***
Bronze Birch borer	fl. oz.	fl. oz.	
Dogwood borer			
Lilac borer			
Rhododendron borer			
Scale crawlers			
Oak lecanium			
Pine needle			
Tea			
White peach			
Peach tree borer	5.8	19.2	6 quarts****
	fl. oz.	fl. oz.	

\*\*\* Equivalent to 1 pound of chlorpyrifos per 100 gallons.  
\*\*\*\* Equivalent to 3 pounds of chlorpyrifos per 100 gallons.

**Peach Tree Borer:** Apply Dursban 2EC to flowering trees and shrubs of the Genus Prunus 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 Experiment Station or Extension Service specialist for proper time to treat your area.

**Warning (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 Dursban 2EC to control ticks infesting non-crop land 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 Dursban 2EC in water at the rate of 1 pint per acre (equivalent to 1 fluid ounce 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.

**Native Elm Bark Beetle:** Prevention of Overwintering to prevent the adult beetle from overwintering in uninfested trees and to reduce beetle populations in disease free areas, apply Dursban 2EC insecticide as a 0.5% mixture of chlorpyrifos in water to the bottom 9 feet of trunk. Wet the trunk thoroughly, but not to runoff. Care should be taken to apply the spray right to the base of the roofline. Applications can be made with either a backpack 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 uninfested trees deemed to be high in value apply a 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.  
**Mosquitoes:** Apply Dursban 2EC to mosquito infested, non-crop areas according to the conditions and rates shown in the following table. Mix Dursban 2EC 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.

**CONDITIONS AND RATES TO USE FOR MOSQUITO CONTROL**

Condition of Area to be Treated	Amount to Use per acre		Number of Gal. of Dursban 2EC With Treat
	Dursban 2EC (fluid ounces)	Chlorpyrifos (pounds)	
Lawn Control			
None to medium vegetative cover	0.8 to 1.6	0.0125 to 0.025	160 to 80
Medium to heavy vegetative cover	1.6 to 3.2*	0.025 to 0.05*	80 to 40
Adult Control			
Light to medium vegetative cover	1.6	0.025	80
Medium to heavy vegetative cover	3.2*	0.05*	40

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

**Warning (Mosquito Control):** Dursban 2EC is toxic to shrimp, crabs and fish. Do not apply to water containing crustaceans and fish. Consult your State Fish and Game Department before using this product for mosquito control.

**STORAGE & DISPOSAL**

**Prohibitions:** Do not contaminate or store near food, feed, fertilizers, seeds, insecticides, fungicides or other pesticides. Open dumping is prohibited. Do not reuse empty container.

**Storage:** Store unused product in original container only. Store in a cool, dry area out of the reach of children. Not for storage in or around the home. Protect from excess heat.

**Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

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

**NOTE:** This pesticide is to be sold ONLY in this original, unbroken package.

**DISCLAIMER:** Buyer assumes all risks of use, storage or handling not in strict accordance with directions given herewith.

EPA Reg No 8590-394 EPA Est No 8590-PA-1

**RQ-1  
CHLORPYRIFOS  
MIXTURE  
ORM-A NA2783**



8590-394