

Reg # 1769-291

PM-12

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Not to be used on or near food, feed, or bedding with  
any other insecticide. Do not use on or near  
any other insecticide.

**LEFT PANEL**

1/26/90

**NATIONAL CHEMSEARCH**

**PATHFINDER II**

**Insecticide with Pyrethrum Flushing Action**

Read entire label before using product.

Si usted no sabe ingles, pida a alguien que sepa lea y  
explique completamente esta etiqueta antes de usar este producto.

**ACTIVE INGREDIENTS:**

*Chlorpyrifos 0,0-diethyl 0-(3,5,6-trichloro- 2-pyridyl) phosphorothioate .....	6.4%
Pyrethrins .....	1.2%
<b>INERT INGREDIENTS .....</b>	<b>92.4%</b>
<b>TOTAL .....</b>	<b>100.0%</b>

Contains 0.50 pound of chlorpyrifos per gallon.

Contains 0.95 pound of pyrethrum per gallon.

\* U.S. Patent No. 3,244,586

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

**KEEP OUT OF REACH OF CHILDREN**

**WARNING**

(See right panel for additional warnings)

EPA Reg. No. 1769-291

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NOH CORPORATION  
2727 Chemsearch Blvd.  
Irving, TX 75062

**CENTER PANEL**

**NOT FOR RESALE OR RESIDENTIAL USE AND STORAGE, UNLESS APPLIED AND  
STORED BY SERVICE PERSONS.**

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

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

May be fatal if swallowed, inhaled or absorbed through the skin. Do not breathe vapors of spray mist. Handle concentrate in a well-ventilated area. Causes eye and skin irritation. Do not get in eyes, on skin or on clothing. Wash contaminated clothing. Wear a pesticide respirator jointly approved by the Mining Enforcement and Safety Administration (formerly the U.S. Bureau of Mines) and by the National Institute for Occupational Safety and Health under the provisions of 30 CFR Part II.

**STATEMENT OF PRACTICAL TREATMENT**

**IF SWALLOWED:** Call a physician or Poison Control Center immediately. If possible, vomiting should be induced under medical supervision. Drink one or two glasses of water and induce vomiting by touching the back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.

**IF INHALED:** Remove contaminated clothing and wash affected areas with soap and water.

**IF IN EYES:** Flush eyes with plenty of water. Call a physician immediately.

**NOTE TO PHYSICIAN:** Chlorpyrifos is a cholinesterase inhibitor. Treat symptomatically. Atropine is an antidote. 2-PAM is also antidotal and may be administered in conjunction with atropine.

**ENVIRONMENTAL HAZARDS**

This product is toxic to fish, birds and other wildlife. Do not apply directly to water. Do not apply when weather conditions favor drift from areas treated. Do not contaminate water by cleaning of equipment or disposal of waste. Shrimp and crab may be killed at application rates recommended on the label. Do not apply where these are important resources. Apply this product only as specified on the label.

This pesticide is toxic to bees exposed to direct treatment or to residues remaining on the treated area. Do not apply when bees are actively visiting the crop, cover crop, or weeds blooming in the treatment area. Applications should be timed to provide the maximum possible interval between treatment and the next period of bee activity.

**BEST AVAILABLE COPY****PHYSICAL AND CHEMICAL HAZARDS****HANDLE CONCENTRATE IN A VENTILATED AREA****DIRECTIONS FOR USE**

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

**STORAGE AND DISPOSAL**

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

**STORAGE: KEEP CONTAINER CLOSED**

**PESTICIDE DISPOSAL:** Pesticide, spray mixture, or rinse water that cannot be used according to label instructions must be disposed of according to Federal or approved state procedures under Subtitle C of the Resource Conservation and Recovery Act.

**CONTAINER DISPOSAL:** Wastes resulting from the use of this product may be disposed of at an approved waste disposal facility. Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or by other approved state and local procedures.

**PEST INDOORS:**

**PATHFINDER II** may be used to control cockroaches, ants, carpet beetles, crickets, firebrats, silverfish, spiders and brown dog ticks in and around institutional and commercial buildings including apartment buildings, hospitals, stores and warehouses.

To control cockroaches, ants, crickets, firebrats, silverfish, spiders: Use 1 part **PATHFINDER II** with 23 parts water to control light infestations and 1 part **PATHFINDER II** with 11 parts water to quickly reduce heavy infestations. Apply as a coarse spray or with a paint brush to localized areas where these pests are found or normally occur, including dark corners of rooms or closets; cracks and crevices in walls; along and behind baseboards; beneath and behind sinks, stoves, refrigerators and cabinets, around plumbing and other utility installations. Apply to point of run off, approximately one gallon of diluted spray per 1,000 square feet of surface area. Repeat the treatment as needed. For ants, apply to ant trails; also around doors and windows and wherever else these pests may find entrance.

**NOTE:** A period of 4-7 days is normally required for maximum effect on cockroaches.

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For the control of carpet beetles, thoroughly apply a dilution of 1 part **PATHFINDER II** with 11 parts water as a spot treatment along baseboards, and edges of carpeting, under carpeting, rugs and furniture, in closets and on shelving, and wherever else these pests are seen or suspected.

**WARNING: (PESTS INDOORS):** Do not use on poultry houses or other animal buildings, housing meat or dairy animals or on edible product areas of food storage or processing plants. 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 the fish bowls (tanks) before spraying. Cover or remove all food before spraying. Cover or remove all food before spraying PATHFINDER II. In hospitals use only in non-patient areas.

#### PESTS OUT-OF-DOORS

**General Information:** Use PATHFINDER II for control of certain pests of lawns and for mosquito control. Consult the following directions for dosage and application details for control of the pests listed.

#### INDOOR PESTS

**NON-FOOD AREAS:** Includes garbage rooms, lavatories, floor drains (to sewers), entries and vestibules, offices, locker rooms, machine rooms, boiler rooms, garages, mop closets and storage (after canning or bottling).

To control cockroaches (including strains resistant to certain other insecticides), ants; clovermites, crickets, firebrats, silverfish, spiders: Use 1 part PATHFINDER II with 23 parts water to control light infestations and 1 part PATHFINDER II with 11 parts water to quickly reduce heavy infestations. Apply as a coarse spray or with a paint brush to localized areas where these pests are found or normally occur, including dark corners or 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 the 1 to 11 dilution only.

**NOTE:** A period of 4 to 7 days is normally required for maximum effect on cockroaches.

#### RIGHT PANEL

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**For the control of carpet beetles:** thoroughly apply a dilution of 1 part PATHFINDER II with 11 parts water 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 and Fleas:** Thoroughly apply a dilution of 1 part PATHFINDER II with 11 parts water as a spot treatment to infested areas such as pet beds and nesting 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 pests should be removed and replaced with clean, fresh bedding after treatment. DO NOT TREAT PETS WITH THIS PRODUCT.

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**FOOD HANDLING ESTABLISHMENTS:** Places other than private residences in which exposed food is held, processed, prepared or served.

**FOOD AREAS - APPLICATION LIMITED TO CRACK AND CREVICE TREATMENT ONLY:** Includes areas for receiving, storage, packing (canning, bottling, warping, boxing), preparing, edible waste storage and enclosed processing systems (mills, dairies, edible oils, syrups). Serving areas when food is exposed and facility is in operation also are considered food areas. Prepare the spray as recommended under non-food areas and apply in small amounts directly into cracks and crevices using equipment capable of delivering a pin stream or insecticide in points between different elements of constructions, between equipment and floors, openings leadings to voids and hollow spaces in walls, equipment legs and bases, where cockroaches, crickets, firebrats, silverfish and spiders hide. Do not apply this product in conduits, motor housings, junction and switch boxes or other electrical equipment because of possible shock hazard.

Care should be taken to avoid depositing the product onto exposed surfaces or introducing the material into the air. Avoid contamination of food or food processing surfaces.

**APPLICATIONS OF THIS PRODUCT IN THE FOOD AREAS OF FOOD HANDLING ESTABLISHMENTS, OTHER THAN AS A CRACK AND CREVICE TREATMENT, ARE NOT PERMITTED.**

**SERVING AREAS:** Facilities where prepared foods are served, such as dining rooms, but excluding areas where food may be prepared or held. Prepare the spray as recommended under NON-FOOD AREAS and apply as a spot treatment to selective surfaces such as baseboards, under elements of construction and into cracks and crevices. Avoid treating surfaces likely to be contacted by food. Do not apply when facility is in operation or foods are exposed.

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**WARNING (PESTS INDOORS):** Do not use in poultry houses, other animal buildings, or buildings housing meat or dairy animals. 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 the fish bowls (aerators) before spraying.

**LAWN PESTS:** To control ants, armyworms, brown dog ticks, chiggers, chinch bugs, crickets, cutworms, earwigs, fleas, grasshoppers and sod webworms (lawn moths), dilute 3 pints of PATHFINDER II with sufficient water to cover 8,000 sq. ft. (6 ounces per 1,000 sq. ft.). Apply as a coarse, low pressure spray using suitable application equipment.

Except for sod webworms, thoroughly water immediately after treatment to wash the insecticide into the turf. For sod webworms, delay watering or mowing the treated area for 12 to 24 hours after treatment. For best results, the lawn should be moist at the time of treatment and care should be taken to obtain complete and uniform coverage of pest infested areas. Spray when pests first appear; and treat when needed.

**To control turfgrass (Hyperodes) weevils:** Use 3 pints diluted in sufficient water per 4,000 sq. ft. (12 ounces per 1,000 sq. ft.). Spray suspected problem areas in mid-April and again in mid-May.

**To control white grubs (European chafer and Japanese beetle larvae only)** apply 3 to 6 pints diluted in sufficient water per 4,000 sq. ft. (12 to 24 ounces per 1,000 sq. ft.) when grubs are young and actively feeding near surface, usually in late July and August. Immediately after spraying for grubs, irrigate the treated area with 1/2 to 1 inch of water to wash the insecticide into the underlying soil.

**ORNAMENTAL PLANTS:** To control aphids, bagworms, eastern tent caterpillars, fall webworms, grasshoppers, mites, orange striped caterpillars, spittlebugs, whiteflies, yellownecked caterpillars and gypsy moths on flowers, shrubs, vines, shade and flowering trees and evergreens use PATHFINDER II at the rate of 1/2 gallon to 100 gallons of water (equivalent to 2 oz. per 3 gallons). To control cutworms, mealybugs, leafhoppers, Mimosa webworms, red-humped caterpillars, and exposed thrips, use PATHFINDER II at the rate of 1 gallon to 100 gallons of water (4 oz. per 3 gallons).

**To control ash, lilac borers and the following scale crawlers (oak lecanium, pine needle, tea and white peach),** use PATHFINDER II at the rate of 2 gallons per 100 gallons of water (8 oz. per 3 gallons). Apply using suitable hand or power spray equipment in a manner to provide complete and uniform coverage of infested plants. 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 to 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, and other plants or other tropical plants because of possible damage to these plants.

**NOTE:** The number of applications to be made on areas treated for control of ornamental plant pests will be varied for varying periods of time and treatment, depending on exposure of treated areas to weathering conditions.

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**AREA CONTROL OF TICKS AND CHIGGERS:** Use PATHFINDER II to control ticks and chiggers infesting non-cropland areas such as roadsides, footpaths and trails, picnic and camping sites, park and other recreational areas where these pests are present and create a nuisance or possible public health problem. Apply PATHFINDER II in water at the rate of 1/2 gallon per acre (equivalent to 2 fl. oz. per 1,350 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.

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

**MOSQUITOES:** To control mosquito larvae, use 1 quart of PATHFINDER II in sufficient water or oil, such as kerosene or fuel oil, to cover 10 acres of none to medium vegetation and 5 acres of medium to heavy vegetation. Apply the spray to provide complete and uniform coverage of infested plants. Apply the spray using suitable application equipment such as hand and power ground sprayers, mist applicators, and aerial spray equipment. Do not use in any type of heat-generated fogger or sprayer.

To control adult mosquitoes, use 1/2 gallon of PATHFINDER II in sufficient water or oil, such as kerosene or No.2 fuel oil, to cover 10 acres of none to medium vegetation and 5 acres of heavy vegetation.

**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 WARRANTY 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 reasonably foreseeable to seller, and buyer assumes the risk of any such use.

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