

OCT 21 1992

Mr. James J. Wurz  
Bonide Products, Incorporated  
2 Wurz Avenue  
Yorkville, New York 13495

Subject: Revised Labeling--Addition of Outdoor Sites  
Bonide Home Pest Control Concentrate  
EPA Registration Number 4-319  
Your Application Dated September 14, 1992

Dear Mr. Wurz:

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, is acceptable provided that you make the labeling changes indicated below before you release the product for shipment bearing the amended labeling:

1. Add the following sentence immediately below the product name on the front panel:

To Be Applied Only By or Under the Supervision of  
Commercial Applicators Responsible for Insect Control  
Programs.

This sentence is required because of the relatively high concentration (12.6%) of chlorpyrifos, and because indoor uses are included on the label. (Note that the specimen label for the DowElanco product, Dursban 1-12, that you included with the submission does not have indoor uses on it.)

2. Delete the Environmental Hazards section and substitute the following:

This product is toxic to birds, fish, and aquatic invertebrates. Birds feeding in treated areas may be killed. Clean up spilled product to reduce exposure to wildlife. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Runoff may be

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hazardous to aquatic organisms in neighboring areas.  
Do not contaminate water when disposing of equipment  
washwater or rinsate.

Submit five (5) copies of your final printed labeling before  
you release the product for shipment.

A stamped copy of the labeling is enclosed for your records.

Please note that the EPA Registration Number for Dursban HF  
is 62719-66.

Sincerely yours,

DHE

Dennis H. Edwards, Jr.  
Product Manager (19)  
Insecticide-Rodenticide Branch  
Registration Division (H7505C)

Enclosure

BONIDE®

3078

HOME PEST CONTROL CONCENTRATE

AREA CONTROL OF COCKROACHES, ANTS, SPIDERS, SILVERFISH, FLEAS, TICKS, AND OTHER LISTED INSECTS.

Picture of Cockroach

Picture of Ant

Picture of Silverfish

EPA Est. No. 4-NY-1

EPA Reg. No. 4-319

ACTIVE INGREDIENTS:

Chlorpyrifos [0,0-diethyl 0-(3,5,6-trichloro-2-pyridyl) Phosphorothioate] ..... 12.6%

INERT INGREDIENTS: ..... 87.4%

ACCEPTED with COMMENTS in EPA Letter Dated

OCT 21 1992

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 4-319

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KEEP OUT OF REACH OF CHILDREN
WARNING
See Side Panel for Additional Precautionary Statements.

NET CONTENTS:
1 Pint or
1 Quart 1/2 Gallon

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS

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WARNING

Causes eye irritation. Harmful if swallowed. Do not take internally. Do not get in eyes, on skin or clothing. Wash thoroughly after handling. Wash contaminated clothing before reuse. Avoid breathing vapors and spray mist. Avoid spraying food crops. Keep away from food, feedstuffs, and domestic water supplies. Keep container closed. Handle concentrate in a ventilated area.

Do not apply directly to food or feedstuffs. In commercial food handling facilities, cover or remove any food or food processing equipment during application. Do not apply while food processing is underway. In the home, all food processing surfaces and utensils should be covered during treatment or thoroughly washed before use.

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 Physicians: Chlorpyrifos is a cholinesterase inhibitor. Treat symptomatically. Atropine only by injection is an antidote.

PHYSICAL OR CHEMICAL HAZARDS

Combustible. Do not use or store near heat or open flame. Do not cut or weld container.

ENVIRONMENTAL HAZARDS

This product 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. Apply this product only as specified on this label. This product is highly toxic to bees exposed to direct treatment or residues on plants. Protective information maybe obtained from your Cooperative Agricultural Extension Service.

DIRECTIONS FOR USE

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

Storage: Keep pesticide in original container. Avoid contamination of feed and foodstuffs. Store in a cool, dry place, preferably in a locked storage area. Avoid temperature extremes. If crystallization occurs during storage, shake until crystals disappear.

Product Disposal: Securely wrap original container in several layers of newspaper and discard in trash.

Container Disposal: Do not reuse container. Discard empty container in trash.

Bonide Home Pest Control Concentrate is an economical, easy to mix insecticide for use in and around residential buildings and commercial buildings such as stores, warehouses, and hospitals to control the specified pests. Dilute with water in a well ventilated area as described in the following chart.

Amt. of Water	Amt. of Product for Heavy Infestations	Amt. of Product for Light Infestations/Prevention
1 pt.	4 teaspoons	2 teaspoons
1 qt.	2½ tablespoons	4 teaspoons
1 gal.	5 fl. oz.	5 tablespoons

INDCORS

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A mild mercaptan odor will be present after treatment, but should dissipate within 48 hrs. if treated areas are kept well ventilated. Before using on fabrics, spot test surfaces for color fastness. Do not allow spray to contact food, feed-stuffs and water supplies. Thoroughly wash dishes and food handling utensils with soap and water if they become contaminated. Remove pets and cover fish tanks before spraying and until spray dries. Set sprayer to deliver a coarse spray and wet the surfaces to be treated as specified below.

For control of cockroaches (including strains resistant to other insecticides), ants, clover mites, crickets, silverfish (firebrats), spiders: Treat only areas where insects normally are found or hide such as dark corners of rooms; 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 ant trails. Also apply around doors, windows and other entrance points. For clover mites use the heavy infestation dilution. Note: 4-7 days is normally required for maximum effect on cockroaches.

For control of carpet beetles use the heavy infestation dilution: Thoroughly apply as a fine spray along baseboards and edges of carpeting, under carpeting, rugs and upholstery in closets and on shelving and places where seen or suspected until moist, not wet.

For control of fleas and brown dog ticks use the heavy infestation dilution: Thoroughly apply as a fine spray for 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

BONIDE HOME PEST CONTROL CONCENTRATE, EPA Reg. No. 4-319

may be present. Old bedding of pets should be removed and replaced with clean, fresh bedding after treatment of the area. **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. Allow sprayed surfaces to dry before returning pets to quarters.

Do not apply water-base sprays to any electrical equipment because of possible shock hazard. Do not allow people or pets in treated areas until spray has dried.

OUTDOORS

For all uses below, use the heavy infestation dilution for longer lasting control. Keep people and pets out of treated areas until spray has dried.

For control of ants, clover mites, cockroaches, crickets, earwigs, fleas, flies, millipedes, mosquitoes, pillbugs, spiders and ticks: Use a coarse spray or paint brush and apply to outside surfaces of buildings such as window frames, eaves, porches, patios, garages, refuse dumps, and other areas where pests have been seen. Avoid contact with desirable vegetation. Repeat treatment as needed to maintain effectiveness allowing at least 7 days between treatments.

*this product* —

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 may find entrance. Use 2 pints of ~~DURSBAN 1-12~~ 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 ~~DURSBAN 1-12~~ to control pests listed in the following table by application at the recommended dosages and in accordance with the directions given below. Dilute ~~DURSBAN 1-12~~ 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.

**Pests of Ornamentals:** Use ~~DURSBAN 1-12~~ 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 ~~DURSBAN 1-12~~ 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.

**Dogwood Borer:** Apply ~~DURSBAN 1-12~~ 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 ~~DURSBAN 1-12~~ in 100 gallons of water and apply uniformly on trees as a coarse, low-pressure spray.

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**Peach Tree Borer:** Apply **BURSEAN-12** 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 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.

**ATTENTION:** 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 uninfested trees and to reduce beetle populations in disease-free areas, apply **BURSEAN-12** 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 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 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 per 1000 sq. ft.	Remarks
Ants, Armyworms, Brown dog tick, Chiggers, Chinch bugs, Clover mite, Crickets, Cutworms, Earwigs, Fleas, Grasshoppers, Sod Webworms, Ticks	3 1/2 fl. oz. (100 ml)	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. (180 ml)	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 (European chafers and Japanese Beetle larvae only)	6 to 12 fl. oz. (180 to 360 ml)	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 into the underlying soil.
Bluegrass bulbbug	6 to 12 fl. oz. (180 to 360 ml)	Spray early in the season when adults 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.

**ATTENTION:** Do not allow public use of treated areas during application or until spray has dried.

**Area Control of Fleas, Ticks and Chiggers:** Use **BURSEAN-12** insecticide to control fleas, 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 **BURSEAN-12** 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.

**Imported Fire Ant:** Treatment of potted, containerized and balled and burlapped nursery stock. Use **BURSEAN-12** to control imported fire ants in soil attached to roots of these plants by completely submerging the ball of soil in a tank containing **BURSEAN-12** 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 **BURSEAN-12** as a drench diluted at the rate of 2 fl. oz. (60 ml) per 2 gallons 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 surrounding 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.

To improve performance thoroughly watering the turf immediately after application will wash the insecticide into the zone of insect infestation.

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

Pest Controlled	Amount of <i>This Product</i> in Water to Make		
	3 gallons	10 gallons	
Aphids Bagworms Eastern tent caterpillar Fall webworm Grasshoppers	Mites Orangestriped oakworm Spittlebugs Whiteflies Yellownecked caterpillar	1 fl. oz. (30 ml)	3.2 fl. oz. (96 ml)
Cutworms Leafhoppers Mealybugs	Mimosa webworm Redhumped caterpillar Thrips (exposed)	2 fl. oz. (60 ml)	6.4 fl. oz. (190 ml)
Ash borer Lilac borer Dogwood borer	Scale Crawlers, Oak lecanium Pine needle Tea White peach	4 fl. oz. (120 ml)	12.8 fl. oz. (380 ml)
Peach tree borer		11.6 fl. oz. (350 ml)	38.4 fl. oz. (1.15 L)

Note: 2 tablespoons = 1 fl. oz.

Buyer assumes risk for use of this product when not used according to label directions or established safe practice.

Manufactured by BONIDE PRODUCTS, INC., YORKVILLE, NY 13495

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