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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

APR 25 1994

JAMES J. WURZ  
BONIDE PRODUCTS INC.  
2 WURZ AVENUE  
YORKVILLE, N.Y. 13495

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

SUBJECT: Label Amendment Submission of 01/27/94 in Response to PR Notice 93-7  
EPA Reg. No. 4-300  
BONIDE GARDEN TURF AND ORNAMENTAL HERBICIDE 5G

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, successfully **REMOVES THE PRODUCT FROM THE SCOPE** of PR Notice 93-7 once the comments (if any) on the attached sheet are addressed. Other than the alterations (if any) listed on the attached sheet, no further alterations to the labeling are necessary to reflect the requirements of the Worker Protection Standard.

Since your amendment proposes to delete uses directly and/or to delete uses implicitly through the use of exclusionary statements, the Agency will publish in the Federal Register a notice of receipt of your amendment to delete uses, as required by section 6(f)(1) of FIFRA. The Agency will defer action for 90 days from the date of the Federal Register notice to give affected minor users an opportunity to try to persuade you to retain the uses(s). When the comment period has expired, the Agency will approve the amendment unless you have withdrawn it, and stamp the amended labeling "accepted." Your stamped-accepted labeling will then be sent to you.

As described in Supplement A of PR Notice 93-11 (self-verification option), you may sell and distribute product bearing the submitted labeling before you receive a copy of your stamped-accepted labeling. Note that your registration is not amended until the comment period required by section 6(f)(1) of FIFRA has expired and the Agency has approved the amendment. Therefore, you may withdraw your proposed amendment at any time during the comment period and until you receive your stamped-accepted labeling.

Sincerely,

*James Tompkins*  
James Tompkins, Deputy Chief  
Registration Support Branch  
Registration Division (7505W)



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James J. Wurtz  
Bonide Products Inc.

Comments for: EPA REG. NO. 4-300  
BONIDE GARDEN Turf AND ORNAMENTAL HERBICIDE 5G

The following specific comments pertain to your WPS labeling submission concerning the product cited above:

Modify application rates from pounds/acre to something more appropriate for non-commercial application rates.

Delete soybeans from the use sites unless you can provide evidence of significant non-commercial production of soybeans.

Remove nursery stock from the "General Information" section.

# BONIDE®

## GARDEN, TURF & ORNAMENTAL HERBICIDE 5 G CONTAINS: DACTHAL®

A PREEMERGENCE HERBICIDE TO CONTROL CRABGRASS, LISTED ANNUAL GRASSES, AND CERTAIN LISTED BROADLEAF WEEDS ON MINERAL SOILS. IT IS RECOMMENDED FOR USE ON CABBAGE, BEANS, CUCUMBERS, MELONS, TOMATOES, POTATOES, TURNIPS, OTHER LISTED VEGETABLES, STRAWBERRIES, TURF, NURSERY STOCK, AND ORNAMENTALS.

Dacthal™ of Fermenta Plant Protection Company  
EPA Est. No. 4-NY-1    EPA Reg. No. 4-300

ACTIVE INGREDIENT:	
Dimethyl tetrachloroterephthalate* .....	5%
INERT INGREDIENTS .....	95%
	100%

\*Use as a preemergence herbicide patented under  
U.S. Patent No. 2,923,634

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

See side panel for additional precautionary statements.

NET WEIGHT:

1 LB.

ACCEPTED  
with COMMENTS  
by EPA Letter Dated

APR 4 5

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

**BEST COPY AVAILABLE**

Not for use on plants being grown for sale or other commercial use, or for commercial seed production, or for research purposes. For use on plants intended for aesthetic purposes or climatic modification and being grown in interior landscapes, ornamental gardens or parks, or on golf courses or lawns and grounds.

### Bonide Garden, Turf & Ornamental Herbicide 5 G Contains Dacthal EPA Reg. No. 4-300

#### PRECAUTIONARY STATEMENTS — HAZARDS TO HUMANS AND DOMESTIC ANIMALS — CAUTION

Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling. **USE ONLY WHEN WEARING THE FOLLOWING PROTECTIVE CLOTHING:** Wear long-sleeved shirt and long-legged pants and chemical resistant gloves. **IMPORTANT!** — If the pesticide comes in contact with skin wash off with soap and water. Always wash hands, face, and arms with soap and water before eating, drinking, or smoking. **AFTER USE** — Before removing gloves, wash them with soap and water. Take off all work clothes and shoes. Shower using soap and water. Do not reuse contaminated clothing. Clothing worn during use must be laundered separately from household articles. Do not graze on treated areas or feed plant refuse to livestock. **STATEMENT OF PRACTICAL TREATMENT** — If in Eye: Flush with plenty of water. Call a physician if irritation persists. **ENVIRONMENTAL HAZARDS** — Contact and incorporate granules applied on the soil surface. Do not apply directly to water, wetlands, rivers, streams, creeks, ditches, or ponds. Do not contaminate water by cleaning of equipment or disposal of wastes. **Groundwater Advisory** — Tetrachloroethene, a breakdown product of Dacthal, is known to leach through soil as a result of agricultural and turf uses and has been found in groundwater which may be used for drinking water. Users are advised not to apply Dacthal to sand and loamy sand soils where the water table (groundwater) is close to the surface and where these soils are very permeable, i.e. well-drained. Your local agricultural agencies can provide further information on the type of soil in your area and the location of groundwater used for drinking water.

**DIRECTIONS FOR USE** — It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

**STORAGE AND DISPOSAL** — Storage: Do not store near food and foodstuffs, seeds, fertilizer, or other pesticide in order to prevent contamination. Disposal: Do not reuse empty container. Wrap container and put in trash collection.

For the control of grasses and some broadleaved weed species, such as smooth and large crabgrass, green and yellow foxtail, barnyard, common chickweed, lambsquarters, ivygrass, parietaria, Florida pusley and witchgrass — Bonide Garden Turf & Ornamental Herbicide 5 G is recommended at 160 to 210 lbs. per acre. A slightly higher rate of application (up to 210 lbs. per acre) may be required to control bahiagrass, greenberg grass, dodder, ground cherry, goosegrass, prostrate grass from seed, nodding spurge, and red-top grass. A rate of 300 lbs. per acre is recommended for control of annual broadleaf in turf. When Bonide Garden Turf & Ornamental Herbicide 5 G is used at the recommended rate, up to 18 months of weed control can be expected. Bermudagrass, goosegrass, prostrate grass established from rhizomes, nutcracker, ragweed, smartweed, velvetleaf and wild mustard have not been effectively controlled with Bonide Garden Turf & Ornamental Herbicide 5 G.

For weeds under thatch, apply to a uniform weed-free soil surface within two to three days following cultivation to prevent seed banks from becoming established. Disturbing the soil surface following application will reduce effectiveness. Lawn spreaders should be properly calibrated prior to use to apply Bonide Garden Turf & Ornamental Herbicide 5 G granules at prescribed rate. Savings may vary between spreaders because of condition and other factors.

Bonide Garden Turf & Ornamental Herbicide 5 G can also be applied by the sprayer method. The safest way of doing this is to measure off the area to be treated into small plots and then evenly sprinkle the prescribed quantity of Bonide Garden Turf & Ornamental Herbicide 5 G granules over the area.

Conversion table — Acre to Square Feet

Rate — Acre:	Amount of Bonide Garden Turf & Ornamental Herbicide 5 G to apply	
	250 sq. ft.	1000 sq. ft.
160 lbs.	15 oz.	3 lb. 11 oz.
180 lbs.	1 lb. 12 oz.	4 lb. 2 oz.
210 lbs.	1 lb. 3 oz.	4 lb. 13 oz.
300 lbs.	1 lb. 12 oz.	6 lb. 14 oz.

If there is no rain within three or four days after application, sprinkler irrigation when available (1/2 to 1 inch of water) should then be used for best results.

Replanting: Transplanting crops other than those included on the label in Bonide Garden Turf & Ornamental Herbicide 5 G treated soil within eight months of application may result in crop injury. If replanting is required because of early crop failure, the planting of onions, seeded melons, pumpkins, turnips, eggplants or peppers at this time may result in crop injury. However, all crops on the label may be planted following harvest of a Bonide Garden Turf & Ornamental Herbicide 5 G treated crop.

Any application of Bonide Garden Turf & Ornamental Herbicide 5 G should be made prior to weed seed germination.

**Turf:** Apply uniformly to established turfs at the rate of 200 lbs. per acre in early spring before crabgrass and other annual grasses and broadleaf weed seeds germinate. Crabgrass seed germination usually coincides with the time Forsythia blossoms start to fall. One application before weed seed germination usually provides seasonal control. In areas which commonly experience stands of late-germinating crabgrass and other annual weedy grasses, a second application at half the regular rate can safely be made six months after the first application. Where spring seeding is necessary, there should be a delay of approximately sixty days after the application of Bonide Garden Turf & Ornamental Herbicide 5 G.

Bonide Garden Turf & Ornamental Herbicide 5 G is not recommended for use on putting greens. Bonide Garden Turf & Ornamental Herbicide 5 G is not recommended on baregrasses when mowed at putting green heights. Do not apply to Dictyonella lawns.

**Nursery Stock or Ornamental Plantings:** Apply 160 lbs. per acre at time of setting out in late fall or early spring. Apply to soil recently cultivated to a uniform texture. Three applications can be made immediately following setting out of stock. With established plantings, apply after proper cultivation to remove existing weeds. Where possible, the should be done in early spring. Late summer applications may prove beneficial for control of late-germinating weeds if they follow cultivation. Weed control up to three months or more may be expected following proper application. Bonide Garden Turf & Ornamental Herbicide 5 G is recommended for weed control on ornamentals, except DO NOT USE on the following plants: Bugweed, Bushy Nightshade, Gum, Gardenia, Mesembryanthemum, Pansy, Petal, Sweet William, Tamarisk.

**Flower Gardens:** Apply after establishment and conditions are favorable for good plant growth, or as a supplemental application at the rate of 160 lbs. per acre. Apply to the soil following establishment or setting out of flower beds. Where possible, do this early in spring. Unweeded or secondarily applications when established plants are in full bloom at any time provided beds have been cultivated and are free of weeds. Weed control up to four months or more may be expected following proper application. See list of ornamentals.

**Broccoli, Brussels Sprouts, Cauliflower, Cabbage:** Apply 160 to 210 lbs. per acre uniformly to the soil at seeding or transplanting. Bonide Garden Turf & Ornamental Herbicide 5 G granules can be applied directly over transplants without injury if weeds have emerged. Crops should be clearly cultivated before application.

**Beans (Dry or Snap), Southern Peas (Black-eyed) and Horse-radish:** Apply uniformly to the soil at seeding at the rate of 160 to 210 lbs. per acre.

**Seeded Cucumbers, Squash (Winter and Summer), Melons (Cantaloupe, Honeydew, Watermelon):** Apply 160 to 210 lbs. per acre uniformly to the soil when plants are well established with four to five true leaves and growing conditions are favorable for good plant growth. Cultivate the crops before application if weeds have emerged.

**Celery, Kale, Mustard Greens, Turnips (Greens and Roots):** Apply uniformly to the soil at the rate of 160 to 210 lbs. per acre at seeding.

**Garlic and Onions:** Apply 160 to 210 lbs. per acre uniformly to the soil at seeding, transplanting or on onions at layby. Bonide Garden Turf & Ornamental Herbicide 5 G can be applied directly over transplants without injury. Layby applications can be made on onions up to 14 weeks after seeding or transplanting. If weeds emerge prior to layby, cultivate the crop before application.

**Potatoes (Whole or Cut Pieces):** Apply uniformly to the soil at 160 to 210 lbs. per acre during planting, drop-off or layby. Layby application can be made up to nine weeks after planting. If weeds have emerged at layby, the crop should be cultivated before application. This initial sprinkler irrigation should not exceed one inch. Bonide Garden Turf & Ornamental Herbicide 5 G is not recommended for use on potatoes in California.

**Sweet Potatoes and Yams:** Apply 160 to 210 lbs. per acre uniformly to the soil at transplanting or layby. Bonide Garden Turf & Ornamental Herbicide 5 G can be spread directly over transplants without injury. Layby applications can be made up to six weeks after transplanting. If weeds have emerged, cultivate the crop before applying Bonide Garden Turf & Ornamental Herbicide 5 G.

**Tomatoes, Eggplant, Peppers:** Uniform application to the soil of 160 to 210 lbs. per acre should be continued to a date 10 to 15 weeks after transplanting. Plants should be well established and growing conditions favorable for good plant growth. Bonide Garden Turf & Ornamental Herbicide 5 G can be applied directly over the plants without injury if weeds have emerged or weed the crop before bedform if weeds have emerged.

**Strawberries — New plantings** — Apply 160 lbs. per acre uniformly to soil at transplanting. Established plantings — Apply in late fall and early spring at the rate of 160 to 180 lbs. per acre to control fall and early spring germinating weeds. Do not apply after first bloom. These applications can be made directly over plants without injury.

**Soybeans:** Apply 160 to 210 lbs. per acre uniformly to the soil at seeding.

**GENERAL INFORMATION** — Bonide Garden Turf & Ornamental Herbicide 5 G is a 5% granular formulation for use as a pre-emptive application to control crabgrass and other annual grasses and certain broadleaf weeds on ornamental lawns. It is recommended for use on all turf nursery stock, home gardens, vegetables, melons, and strawberries.

Buyer's guarantee limited to label claims and refund of purchase price.

Manufactured by

BONIDE PRODUCTS, INC. • YORKVILLE, NY 13495

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