



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

PM 23

4-296

4/21/94

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APR 21 1994

JAMES J. WURZ
BONIDE PRODUCTS INC.
2 WURZ AVE.
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. 4-296
BONIDE TURF & ORNAMENTAL HERBICIDE 75% W.P.

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 When the comment period has expired, the Agency will approve the amendment unless you have withdrawn it, and stamp the amended labeling "accepted."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, Deputy Chief
Registration Support Branch
Registration Division (7505W)



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contains at least 50% recycled fiber

NO PRODUCT SPECIFIC COMMENTS

BONIDE®

**TURF & ORNAMENTAL
HERBICIDE 75% W.P.
CONTAINS: DACTHAL®**

CONTROLS VERONICA FILIFORMIS
(CREEPING SPEEDWELL),

ANNUAL BLUEGRASS
(POA ANNUA),

CRABGRASS AND OTHER WEEDS
Dacthal™ of Fermenta Plant Protection Company

EPA EST. NO. 4-NY-1

EPA REG. NO. 4-296

ACTIVE INGREDIENT

DCPA (Dimethyl tetrachloroterephthalate*) 75.0%

INERT INGREDIENTS 25.0%

100.0%

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

CAUTION: KEEP OUT OF REACH OF CHILDREN
See Side Panel for Additional Precautionary Statements

NET WEIGHT: 8 OUNCES

ACCEPTED
with COMMENTS
In EPA Letter Dated
APR 21 1994
Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
4-296

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 plantscapes, ornamental gardens or parks, or on golf courses or lawns and grounds.

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 smoking, eating, drinking, or toileting. **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 Eyes: Flush with plenty of water. Call a physician if irritation persists. **ENVIRONMENTAL HAZARDS** — Do not apply directly to water or wastewater. Do not contaminate water when disposing of equipment washwater. **Groundwater Advisory** — Tetrachloroethylene, 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 feed and foodstuffs, seeds, fertilizer, or other pesticides in order to prevent contamination. Bonide Turf & Ornamental Herbicide 75% WP is a wettable powder so store in a dry place. Wash out the spray tank thoroughly after use. Disposal: Do not reuse empty container. Wrap container and put in trash collection.

Preparation and Application of the Spray: Bonide Turf & Ornamental Herbicide 75% WP should be thoroughly mixed in the spray tank with water to provide for broadcast application of at least 20 gallons of water per square acre, depending on equipment and local practices. In order to insure uniform suspension in the spray tank, Bonide Turf & Ornamental Herbicide 75% WP should be premixed in a clean container at the rate of about 12 pounds to 3 gallons of water. This mixture should be stirred until a slurry is formed and then added to the spray tank during or after filling. Adequate agitation should be maintained during filling and spraying to keep material in uniform suspension. Use nozzles suitable for applying wettable powders so that the spray can be uniformly distributed over turf or properly prepared soil surface. Any screen or strainer in spray equipment should be no finer than 50 mesh to prevent clogging. It is essential that the sprayer be properly calibrated before making applications. Standard low pressure (30-50 psi) boom-type sprayers are recommended.

A minimum of one-fourth inch of water, either as rain or irrigation, is necessary to activate Bonide Turf & Ornamental Herbicide 75% WP and thereby obtain pre-emergence control of weeds suspected. Normally, water must be applied within 3 to 5 days of application if sufficient rainfall does not occur. However, when surface soil is dry but sub-surface soil contains enough moisture to germinate weeds, water must be applied immediately.

Turf: Application at the rate of 14 pounds of Bonide Turf & Ornamental Herbicide 75% WP in from 40-100 gallons of water per acre (1 to 7.5 to 7 gals./3000 sq. ft.) gives excellent control of crabgrass and other weeds as listed on this label. One application applied in early spring before weed seed germination usually provides seasonal control. Crabgrass seed germination usually coincides with the time when Forsythia blossoms start to fall, in areas which commonly experience stands of late germinating crabgrass and other annual weedy grasses, a second application at half the regular rate can be safely made two months after the first application. In order to control annual bluegrass (Poa annua) and other erratic or late germinating grasses and weeds in northern states, a late summer or early fall application before weed seed germination of 20 pounds of Bonide Turf & Ornamental Herbicide 75% WP in from 40-100 gallons of water per acre (1.2 to 1 to 2 gals./1000 sq. ft.) should supplement the early spring application. Earlier applications are required in southern United States. Consult agricultural experiment station or extension service weed specialist for date Poa annua seed germinates in your area and make application at least two weeks prior to this date.

Early spring application of Bonide Turf & Ornamental Herbicide 75% WP may be made to new turfgrass seedbeds after the grasses have exhibited a uniform greening of the newly sprouted grass, preferably when 1 to 2 inches in height. Such Bonide Turf & Ornamental Herbicide 75% WP application gives control of crabgrass without injury to newly-emerged grass. Fall sowing of permanent grasses can follow early spring application of Bonide Turf & Ornamental Herbicide 75% WP. Where some spring seeding is necessary, there should be a delay of approximately 70 days after the application of most pre-emergence herbicides, including Bonide Turf & Ornamental Herbicide 75% WP. This delay increases the survival of desirable grasses.

Bonide Turf & Ornamental Herbicide 75% WP is not recommended for use on putting greens. Bonide Turf & Ornamental Herbicide 75% WP is not recommended for use on bent grasses mowed at putting green height.

For control of creeping speedwell (Veronica filiformis), apply 16 pounds of Bonide Turf & Ornamental Herbicide 75% WP in 40 to 100 gallons of water per acre as a post-emergence spray when creeping speedwell is growing vigorously. Spring or early fall applications are usually suitable, provided temperatures are between 65° and 90° F, and there is ample soil moisture. Thorough coverage is essential. Delayed control of creeping speedwell is to be expected and will be manifested first by a gradual loss of color and vigor.

FOR USE ON TURF

	To Control	When to Apply	Rate of Bonide Turf & Ornamental Herbicide 75% WP for Turf	Remarks
Established turf	Crabgrass	Early spring, before crabgrass and other spring annual weed seeds germinate	14 lbs./acre or 1 lb./3 to 7 gals./3000 sq. ft.	Apply before Forsythia blossoms start to fall. A second application at half the recommended rate may be made 2 months after the first application if necessary.
	Annual bluegrass (Poa annua)	Late summer or early fall in northern states before weed seed germination. Consult agriculture experiment station or extension weed specialist for date Poa annua germinates in your area and make application at least 2 weeks prior to this date.	20 lbs./acre or 1.2 lb./1 to 2 gals./1000 sq. ft.	Should be used following an early spring application for crabgrass control.
	Creeping speedwell (Veronica filiformis)	As a post-emergence spray in spring or early fall when creeping speedwell is growing vigorously, there is ample soil moisture and temperature is between 65° and 90° F.	16 lbs./acre or 1.2 lb./1 to 2 gals./1000 sq. ft.	Apply spray to obtain thorough coverage of foliage. Delayed control of creeping speedwell, approximately 30 days, is to be expected and will be noticed first by a gradual loss of color and vigor.
Newly seeded turf	Crabgrass	After new turfgrass seedlings have exhibited a greening of the newly sprouted grass (about 1 to 2 inches high)	14 lbs./acre	Allows crabgrass control without injury to new turf.

Caution: After Bonide Turf & Ornamental Herbicide 75% WP treatment, wait approximately 60 days before any new seeding is undertaken. **DO NOT** use on Dacthal Nursery Stock. Bonide Turf & Ornamental Herbicide 75% WP can be applied to a wide range of nursery stock at the rate of 14 to 16 pounds in 50 to 100 gallons of water per acre treated (1 lb./3 to 7 gals./3000 sq. ft.).

Applications should be made to soil recently cultivated to a uniform texture. These can be made immediately following bring-out of stock. With established plantings, application should be made following proper cultivation to remove existing weeds. Where possible, this should be done early in the spring. Late summer application may prove beneficial for control of fall germinating weeds, if made following cultivation. Weed control up to three months after treatment may be expected following proper application.

Bonide Turf & Ornamental Herbicide 75% WP is specifically recommended for weed control with ornamental, except **DO NOT USE** on the following plants: Bugleweed, Bliton pink, Carnation, Goum, Germander, Mesembryanthemum, Pansy, Phlox, Sweet William, Tokuraia.

General Information: Bonide Turf & Ornamental Herbicide 75% WP is a wettable powder formulation for use in pre-emergence application for control of crabgrass and other annual grasses and certain broadleaved weeds on mineral soils in turf and nursery stock. The following weeds are grouped according to their susceptibility to Bonide Turf & Ornamental Herbicide 75% WP. Susceptible: (Controlled at recommended rates): Common lambsquarters, smooth crabgrass, large crabgrass, low grass, carpetweed, witchgrass, purslane, Florida pusley, yellow foxtail, green foxtail, common chickweed. Moderately Susceptible: (Higher rates required for effective control): Redroot pigweed, sandbar, douglas, barnyard grass, goosegrass, brown top panicum, ground cherry, annual bluegrass, johnson grass (from seed), Tokuraia. Not Susceptible: (Controlled at recommended rates): Common ragweed, johnson grass established from rhizomes, mustards, jimsonweed, morningglory, smartweed, nutsedge. Bonide Turf & Ornamental Herbicide 75% WP may be used as post-emergence herbicide for the control of creeping speedwell.

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

Manufactured by

BONIDE PRODUCTS, INC. • YORKVILLE, NY 13495

BEST AVAILABLE COPY

PRECAUTIONARY STATEMENTS—CAUTION

HAZARDS TO HUMANS AND DOMESTIC ANIMALS -- Harmful if swallowed or inhaled. Avoid breathing dust. Avoid contact with skin, eyes or clothing. In case of contact immediately flush eyes or skin with plenty of water. Get medical attention if irritation persists.

ENVIRONMENTAL HAZARDS -- Do not contaminate water when disposing of equipment washwaters. Do not apply directly to water. ←

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Call a physician or Poison Control Center. Drink 1 to 2 glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.

IF INHALED: Remove victim to fresh air. If not breathing, give artificial spiration, preferably mouth-to-mouth. Get medical attention.

IF ON SKIN: Wash with plenty of soap and water. Get medical attention if irritation persists.

IF IN EYES: Flush eyes with plenty of water. Get medical attention if irritation persists.

DIRECTIONS FOR USE—GENERAL CLASSIFICATION - 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. Open dumping is prohibited. **STORAGE** -- Store in original container in a cool, dry place inaccessible to children and pets and away from heat and direct sunlight. Storage at temperatures above 90°F may impair effectiveness.

DISPOSAL -- Do not reuse bag. Securely wrap bag in several layers of newspaper and discard in trash.

ADVANTAGES OF Dipel® 86

- Dipel®, unlike certain chemical insecticides, may be used anytime the specified caterpillars appear. Treated vegetables may be picked and consumed anytime after spraying. Pets and family may return to the treated areas immediately after spray deposits dry.
- The active ingredient, *Bacillus thuringiensis*, has been proven commercially to selectively affect leaf-eating caterpillars.

HOW TO MIX AND APPLY

Dipel® 86 is easy to mix and apply through pressurized or hose-end sprayers. Place one-half the required amount of water in jar or tank. Add recommended amount of Dipel® while shaking or stirring. A spreader-sticker may be added as an aid to obtaining thorough coverage. Do not store diluted spray more than 12 hours.

Caterpillars must eat a small amount of treated leaf to get a lethal dose. Thorough and uniform coverage of both sides of all foliage subject to attack is essential for prompt and complete control. Within a few hours after taking a bite of treated leaf, caterpillar stops feeding. Death follows in a few days.

Apply when caterpillars (or their damage) first appear. Retreatment at 7 to 10 day intervals may be required, especially when egg hatch occurs over an extended period of time. Use of the higher range of recommended rates provides a longer period of control.

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 plantscapes, ornamental gardens or parks, or on golf courses or lawns and grounds.

AMOUNT TO APPLY

ORNAMENTALS AND SHADE TREES		(up to 25 Feet Tall) Level Tablespoons Per Gal. of Water	VEGETABLES**	
Pest			Broccoli	Cabbage Looper 2-4
Gypsy Moth Larvae*		2-4	Cabbage	Imported Cabbageworm 1-2
Elm Spanworm		4	Cauliflower	Diamondback Moth 1-2
Spring and Fall Cankerworms (Inchworms)		2	Collards, Kale, Lettuce, Mustard and Turnip Greens, Spinach,	
Bagworm		2-4	Beans,	Cabbage Looper 2-4
Red-lumped Caterpillar (California Only)		1-2	Cucumbers, Melons, Potatoes	
Tent Caterpillar		1-2	Celery	Cabbage Looper 2-4
Fall Webworm		2		Celery Looper 2-4
*For best control of Gypsy Moth, apply when caterpillars are small (2nd or 3rd instars). Repeat treatment if necessary.			Grapes	Grape Leaf Folder 2-4
			Tomatoes	Cabbage Looper 2-4
	Sod Webworm	2-4		Tomato Hornworm 1-2
				Tomato Fruitworm*** 4
CROP	FLOWERS	AMOUNT	**Dipel® may be applied up to the day of harvest.	
Mums	PESTS	2-4	***For best results apply every 5-7 days.	
	Cabbage Looper			

Buyer's Guarantee Limited Strictly to Label Claims and Refund of Purchase Price

Packed by

BONIDE PRODUCTS, INC. • YORKVILLE, N.Y. 13495



100 21 1002

JAMES J. WURZ
BONIDE PRODUCTS INC.
2 WURZ AVE.
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. 4-296
BONIDE TURF & ORNAMENTAL HERBICIDE 75% W.P.

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, Deputy Chief
Registration Support Branch
Registration Division (7505W)



Recycled/Recyclable
Printed with Soy/Canola Ink on
contains at least 50% recycled

NO PRODUCT SPECIFIC COMMENTS

BONIDE®

**TURF & ORNAMENTAL
HERBICIDE 75% W.P.
CONTAINS: DACTHAL®**

**CONTROLS VERONICA FILIFORMIS
(CREEPING SPEEDWELL),**

**ANNUAL BLUEGRASS
(POA ANNUA),**

**CRABGRASS AND OTHER WEEDS
Dacthal™ of Fermenta Plant Protection Company**

EPA EST. NO. 4-NY-1

EPA REG. NO. 4-296

ACTIVE INGREDIENT

DCPA (Dimethyl tetrachloroterephthalate*) 75.0%

INERT INGREDIENTS 25.0%

100.0%

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

CAUTION: KEEP OUT OF REACH OF CHILDREN
See Side Panel for Additional Precautionary Statements

NET WEIGHT: 8 OUNCES

ACCEPTED
with COMMENTS
in EPA Letter Dated

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
recommended for the pesticide

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 plantscapes, ornamental gardens or parks, or on golf courses or lawns and grounds.

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 Eyes: Flush with plenty of water. Call a physician if irritation persists.
ENVIRONMENTAL HAZARDS — Do not apply directly to water or wastewater, streams, bays, harbors, or rivers. Do not contaminate water when disposing of equipment washwater. **Groundwater Advisory** — Tetrachloroethylene, 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 heavy 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 pesticides in order to prevent contamination. Bonide Turf & Ornamental Herbicide 75% WP is a volatile powder so store in a dry place. Wash out the spray tank thoroughly after use. Disposal: Do not reuse empty container. Wrap container and put in trash collection.

Preparation and Application of the Spray: Bonide Turf & Ornamental Herbicide 75% WP should be thoroughly mixed in the spray tank with water to provide for broadcast application of at least 20 gallons of water per square acre, depending on equipment and local practices. In order to insure uniform suspension in the spray tank, Bonide Turf & Ornamental Herbicide 75% WP should be premixed in a clean container at the rate of about 12 pounds to 3 gallons of water. This mixture should be stirred until a slurry is formed and then added to the spray tank during or after filling. Adequate agitation should be maintained during filling and spraying to keep material in uniform suspension. Use nozzles suitable for applying wettable powders so that the spray can be uniformly distributed over turf or properly prepared soil surface. Any screen or strainer in spray equipment should be no finer than 50 mesh to prevent clogging. It is essential that the sprayer be properly calibrated before making applications. Standard low pressure (30-50 psi) boom-type sprayers are recommended.

A minimum of one-fourth inch of water, either as rain or irrigation, is necessary to activate Bonide Turf & Ornamental Herbicide 75% WP and thereby obtain pre-emergence control of weeds sprouted. Normally, water must be applied within 3 to 5 days of application if sufficient rainfall does not occur. However, when surface soil is dry but sub-surface soil contains enough moisture to germinate weeds, water must be applied immediately.

Turf: Application at the rate of 14 pounds of Bonide Turf & Ornamental Herbicide 75% WP in from 40-100 gallons of water per acre (1 lb./3 to 7 gals./3,000 sq. ft.) gives excellent control of crabgrass and other weeds as listed on this label. One application applied in early spring before weed seed germination usually provides seasonal control. Crabgrass seed germination usually coincides with the time when Forsythia blossoms start to fall. In areas which commonly experience stresses of late-germinating crabgrass and other annual weedy grasses, a second applic. can be made at half the regular rate can be safely made two months after the first application in order to control annual bluegrass (Poa annua) and other erratic or late germinating grasses and weeds in northern states, a late summer or early fall application before weed seed germination of 20 pounds of Bonide Turf & Ornamental Herbicide 75% WP in from 40-100 gallons of water per acre (1 lb./2 to 2 gals./1,000 sq. ft.) should supplement the early spring application. Earlier applications are required in southern United States. Consult agricultural experiment station or extension service weed specialist for date Poa annua seed germination in your area and make application at least two weeks prior to this date.

Early spring application of Bonide Turf & Ornamental Herbicide 75% WP may be made to new turfs as soon as the grasses have exhibited a uniform greening of the newly sprouted grass, preferably when 1 to 2 inches in height. Such Bonide Turf & Ornamental Herbicide 75% WP application gives control of crabgrass and other weeds in newly-sprouted grass. Fall sowing of permanent grasses can follow early spring application of Bonide Turf & Ornamental Herbicide 75% WP where some sowing is necessary, there should be a delay of approximately 60 days after the application of most pre-emergence herbicides, including Bonide Turf & Ornamental Herbicide 75% WP. This delay increases the survival of desirable grasses.

Bonide Turf & Ornamental Herbicide 75% WP is not recommended for use on putting greens.
 Bonide Turf & Ornamental Herbicide 75% WP is not recommended for use on lawn grasses mowed at putting green height.

For control of creeping speedwell (Veronica filiformis), apply 16 pounds of Bonide Turf & Ornamental Herbicide 75% WP in 40 to 100 gallons of water per acre as a post-emergence spray when creeping speedwell is growing vigorously. Spring or early fall applications are usually suitable, provided temperatures are between 65° and 90° F, and there is ample soil moisture. Thorough coverage is essential. Usual control of creeping speedwell is to be expected and will be manifested first by a gradual loss of color and vigor.

FOR USE ON TURF

	To Control	When to Apply	Rate of Bonide Turf & Ornamental Herbicide 75% WP for Turf	Remarks
Established turf	Crabgrass	Early spring, before crabgrass and other spring annual weed seeds germinate	14 lbs./acre or 1 lb./3 to 7 gals./3,000 sq. ft.	Apply before Forsythia blossoms start to fall. A second application at half the recommended rate may be made 2 months after the first application if necessary.
	Annual bluegrass (Poa annua)	Late summer or early fall in northern states before weed seed germination. Consult agricultural experiment station or extension weed specialist for date Poa annua germination in your area and make application at least two weeks prior to this date.	20 lbs./acre or 1 lb./2 to 2 gals./1,000 sq. ft.	Should be used following an early spring application for crabgrass control.
	Creeping speedwell (Veronica filiformis)	As a post-emergence spray in spring or early fall when creeping speedwell is growing vigorously. Apply to ample soil moisture and temperature is between 65° and 90° F.	16 lbs./acre or 1 lb./2 to 2 gals./1,000 sq. ft.	Apply spray to obtain thorough coverage of foliage. Usual control of creeping speedwell, approximately 30 days, is to be expected and will be noticed first by a gradual loss of color and vigor.
Newly seeded turf	Crabgrass	After new turfgrass seedlings have exhibited a greening of the newly sprouted grass (about 1 to 2 inches high)	14 lbs./acre	Allows crabgrass control without injury to new turf.

Caution: After Bonide Turf & Ornamental Herbicide 75% WP treatment, weed approximately 60 days before any new seeding is undertaken. **DO NOT** use on Dacthal Nursery Stock: Bonide Turf & Ornamental Herbicide 75% WP can be applied to a wide range of nursery stock at the rate of 14 to 16 pounds in 50 to 100 gallons of water per acre treated (1 lb./3 to 7 gals./3,000 sq. ft.).

Applications should be made to soil recently cultivated to a uniform texture. If one can be made immediately following spring soil of stock. With regulated watering, applications should be made following proper cultivation to remove existing weeds. Where possible this should be done early in the spring. Late summer application may provide beneficial for control of late germinating weeds, if made following irrigation. About control up to three months after they are applied following proper application.

Bonide Turf & Ornamental Herbicide 75% WP is specifically recommended for weed control with ornamentals, except **DO NOT USE** on the following plants: Begonia Rex, Boston Fern, Carnation, Gum, Geranium, Mimosas, Verbena, Pansy, Phila, Sweet William, Tobacco.

General Information: Bonide Turf & Ornamental Herbicide 75% WP is a wettable powder formulation for use in pre-emergence application for control of crabgrass and other annual grasses and certain broadleaved weeds on mineral soils in turf and nursery stock. The following weeds are grouped according to their susceptibility to Bonide Turf & Ornamental Herbicide 75% WP. Susceptible (Controlled at recommended rates): Common bermudagrass, smooth crabgrass, large crabgrass, fine crabgrass, carpetgrass, meadow fescue, Florida pussey, yellow foxtail, green foxtail, common chickweed, moderately susceptible (Higher rates required for effective control): Redout pigweed, sandspur, double barnyard grass, quackgrass, common bermudagrass, green foxtail, annual bluegrass, johnsongrass (from seed). Tolerant: Velvet leaf, common ragweed, johnsongrass established from runners, hardward, perennating, nutcracker, whitehead, ruscus, Bonide Turf & Ornamental Herbicide 75% WP may be used as post-emergence herbicide for the control of creeping speedwell.

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

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

BEST COPY AVAILABLE 4