BONIDE

ACCEPTED
JUL 17 1980
Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under [illegible]

TURF & ORNAMENTAL HERBICIDE 50% W.P.

CONTAINS: DACTHAL®

CONTROLS VERONICA FILIFORMIS
(CREEPING SPEEDWELL),
ANNUAL BLUEGRASS
(POA ANNUA),
CRABGRASS AND OTHER WEEDS

Dacthal™ of Diamond Shamrock Corporation

EPA EST. NO. 4-NY-1 EPA REG NO. 4-297

ACTIVE INGREDIENT:
Dimethyl tetrachloroterephthalate* 50.0%
INERT INGREDIENTS: 50.0%
100.0%

*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 WT. 1 LB.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS — CAUTION

Harmful [illegible] eyes [illegible] eyes with plenty of water [illegible] physician. Wash after [illegible]

Do not graze on treated areas or feed [illegible] to livestock.

ENVIRONMENTAL HAZARDS

Keep out of lakes, streams and ponds. [illegible] contaminate water by cleaning of equipment or disposal of waste.

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 50% 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 50% WP should be thoroughly mixed in the spray tank with water to provide for broadcast application of at least [illegible] gallons of water per [illegible] acre, depending on equipment and local practices. In order to insure uniform suspension in the spray tank, Bonide Turf & Ornamental Herbicide 50% WP should be premixed in a clean container at the rate of about 18 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 application. Standard low pressure [illegible] 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 50% WP and thereby obtain preemergence control of weeds [illegible] water [illegible] be applied within 3 to 5 days of application if sufficient rainfall does not occur. However, when surface soil is dry [illegible] surface soil [illegible] enough moisture to germinate weeds, water must be applied immediately.

TURF Application at the rate of 21 pounds of Bonide Turf & Ornamental Herbicide 50% WP in from 40-100 gallons of water per acre ([illegible] lb. 3 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 30 pounds of Bonide Turf & Ornamental Herbicide 50% WP in from 40-100 gallons of water per acre ([illegible] lb. [illegible] to 2 gals./3000 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 50% WP may be made to new turfgrass seedings 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 50% WP application gives control of crabgrass without injury to new emerged grass. Fall sowing of permanent grasses can follow early spring application of Bonide Turf & Ornamental Herbicide 50% WP. Where some spring seeding is necessary, there should be a delay of approximately 60 days after the application of most preemergence herbicides including Bonide Turf & Ornamental Herbicide 50% WP. This delay increases the survival of desirable grasses.

Bonide Turf & Ornamental Herbicide 50% WP is not recommended for use on putting greens.

Bonide Turf & Ornamental Herbicide 50% WP is not recommended for use on bent grasses mowed at putting green height.

For control of creeping speedwell (Veronica filiformis), apply 24 pounds of Bonide Turf & Ornamental Herbicide 50% WP in 40 to 100 gallons of water per acre as a postemergence 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 50% WP FOR TURF	REMARKS
Established turf	Crabgrass	Early spring before crabgrass and other spring annual weed seeds germinate	21 lbs. acre or 1½ 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 agricultural 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.	30 lbs. acre or [illegible] lb. [illegible] to 2 gals. 3000 sq. ft.	Should be used following an early spring application for crabgrass control.
	Creeping speedwell (Veronica filiformis)	As a postemergence 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.	24 lbs. acre or [illegible] lb. [illegible] to 2 gals./3000 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.	21 lbs. acre	Allows crabgrass control without injury to new turf.

CAUTION: After Bonide Turf & Ornamental Herbicide 50% WP treatment, wait approximately 60 days before any new seeding is undertaken. **DO NOT** use on Dichondra.

NURSERY STOCK: Bonide Turf & Ornamental Herbicide 50% WP can be applied to a wide range of nursery stock at the rate of 21 to 24 pounds in [illegible] gallons of water per acre treated (1.5 to [illegible] lb. [illegible] gals. 3000 sq. ft.)

Applications should be made to soil recently cultivated to a uniform texture. These can be made immediately following lining 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 or more may be expected following proper application.

Bonide Turf & Ornamental Herbicide 50% WP is specifically recommended for weed control with the following:

Abelia, Ageratum, Alyssum, Andromeda (Jap.), Arborvitae, Ash, Aster, Azalea, Babysbreath, Barberry, Bellflower, Birch, Bleedingheart, Boxleaf, Boxwood, [illegible], Camellia, Candytuft, Chestnut, Chrysanthemum, [illegible], Coleus, Columbine, Coneflower, [illegible], Coreopsis, Coralbells, Cosmos, Cotoneaster, [illegible], Crabapple, Cuphea, Cypress, Dahlia, Daisy, Deutzia, Dogwood, Elaeagnus, Elm, Euonymus, Evening Primrose, Feverfew, Fir, Forget-me-not, Forsythia, Four O'Clock, Foxglove, Gaillardia, Geranium, [illegible], Goldendust, [illegible], Gum, Hawthorn, [illegible], Holly, Hydrangea, Honeysuckle, [illegible], [illegible] Bean, [illegible], [illegible] English, [illegible], Juniper, Lantana, Larkspur, [illegible], Lavender, [illegible], Lilac, Lily, Locust, Lupine, Magnolia, Maple, Marguerite, [illegible], Marigold, Mockorange, Morningglory, Moss rose, Mother of Thyme, Mountain Laurel, Mourning Bride, Nasturtium, Oak, Orpine, Pachistima, Pachysandra, Peony, Petunia, [illegible], [illegible], Pokerplant, Poplar, Privet, Privet (variegated), Redbud, Rhododendron, Rose, Russian olive, Sage (scarlet), Snapdragon, Spiderwort, Spirea, Spruce, Stonecrop, Strawflower, Sundrops, Sunflower, Sweet pea, Sycamore, Tree Peony, Tulip Tree, Viburnum, Violet, Walnut, Weigela, Willow, Wormwood, Yarrow (fernleaf), Yew, Zinnia, Pine

DO NOT USE on the following plants: Bugleweed, Buttonbush, Carnation, Geum, Germander, Mesembryanthemum, Pansy, Phlox, Sweet William, Telanthera

GENERAL INFORMATION Bonide Turf & Ornamental Herbicide 50% WP is a wettable powder formulation for use in preemergence 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 [illegible] controlled by [illegible] Bonide Turf & Ornamental Herbicide 50% WP:

Susceptible [illegible] rates: [illegible] crabgrass, large crabgrass, love grass, carpetweed, witchgrass [illegible] green foxtail [illegible] seed.

Moderately Susceptible (higher rates required) [illegible] barnyard grass, goosegrass, brown top [illegible] grass [illegible] seed.

Tolerant: [illegible] mustards [illegible] sedge, smartweed, nutsedge. Bonide Turf & Ornamental Herbicide [illegible] creeping speedwell.

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

Mfg. by BONIDE CHEMICAL CO., INC., YORKVILLE, N.Y. 13495

BEST DOCUMENT AVAILABLE