

NET CONTENTS

24 POUNDS

EPA REG. NO. 677-262

DIAMOND SHAMROCK CHEMICAL COMPANY

ACCEPTED

DACTHAL <sup>®</sup> W-75 FOR TURF

(75% Wettable Powder)

*September 11, 1977*

*677-262*

*Comment*

A Selective Preemergence Herbicide for  
Nurseries and Professional Turf Management

ACTIVE INGREDIENT:

Dimethyl ester of tetrachloroterephthalic acid* . . . .	75.0%
INERT INGREDIENTS: . . . . .	<u>25.0%</u>
TOTAL . . . . .	100.0%

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

18 pt. type - CAUTION: KEEP OUT OF REACH OF CHILDREN - 12 pt. type  
SEE SIDE PANEL FOR ADDITIONAL CAUTIONS.

AGRICULTURAL CHEMICALS DIVISION - CLEVELAND, OHIO 44114

DIAMOND SHAMROCK CORPORATION

ACCEPTED WITH COMMENTS

READ ENTIRE LABEL CAREFULLY AND USE ONLY AS DIRECTED

GENERAL INFORMATION

DACTHAL W-75 FOR TURF is a 75 percent 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 grouped according to their susceptibility to DACTHAL W-75 FOR TURF.

Susceptible (controlled at recommended rates): Common lambs-quarters, smooth crabgrass, large crabgrass, lovegrass, carpetweed, witchgrass, purslane, Florida pusley, yellow foxtail, green foxtail, common chickweed.

Moderately Susceptible (higher rates required for effective control): Redroot pigweed, sandbur, dodder, barnyardgrass, goosegrass, browntop panicum, ground cherry, annual bluegrass, johnsongrass (from seed).

Tolerant: Velvetleaf, common ragweed, johnsongrass established from rhizomes, mustards, jimsonweed, galinsoga, smartweed, nutsedge.

DACTHAL W-75 FOR TURF may be used as a postemergence for the control of creeping speedwell.

DIRECTIONS FOR USE

Preparation and Application of the Spray: DACTHAL W-75 FOR TURF should be thoroughly mixed in the spray tank with water to provide for broadcast application of at least 20 gallons of water per acre, depending on equipment and local practices. In order to insure uniform suspension in the spray tanks, DACTHAL W-75 FOR TURF should be pre-mixed 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 DACTHAL W-75 and thereby obtain preemergence control of weeds specified. 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 subsurface soil contains enough moisture to germinate weeds, water must be applied immediately.

#### TURF

Application at the rate of 14 lbs. of DACTHAL W-75 FOR TURF in from 40 to 100 gallons of water per acre (1 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 20 pounds of DACTHAL W-75 FOR TURF in from 40 to 100 gallons of water per acre (1/2 lb./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 DACTHAL may be made to new turfgrass seedlings after the grasses have exhibited a uniform greening of the newly sprouted grass, preferably when 1 to 2 inches in height. Such DACTHAL application, gives control of crabgrass without injury to newly-emerged grass. Fall sowing of permanent grasses can follow early spring applications of DACTHAL.

Where some spring seeding is necessary, there should be a delay of approximately 60 days after the application of most preemergence herbicides, including DACTHAL. This delay increases the survival of desirable grasses.

DACTHAL is not recommended for use on putting-greens.

For control of creeping speedwell (Veronica filiformis), apply 16 pounds of DACTHAL W-75 FOR TURF 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 DACTHAL W-75 FOR TURF	REMARKS
Established turf	Crabgrass	Early Spring, before crabgrass and other Spring annual weed seeds germinate.	14 lb/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 ( <u>Poa annua</u> )	Late summer or early fall in Northern states before weed seed germination. Consult agriculture experiment station or extension weed specialist for date <u>Poa annua</u> germinates in your area and make application at least two weeks prior to this date.	20 lb/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 ( <u>Veronica filiformis</u> )	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.	16 lbs/Acre or 1/3 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 lb/Acre	Allow crabgrass control without injury to the new turf.

CAUTION: After DACTHAL treatment, wait approximately 60 days before any new seeding is undertaken.

DO NOT use on Dichondra.

NURSERY STOCK: DACTHAL W-75 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 of area treated (1 pound in 3-7 gallons of water/3000 square feet).

Applications should be made to soil recently cultivated to a uniform texture. There 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.

DACTHAL W-75 is specifically recommended for weed control with the following:

Abelia	Feverfew	Nasturtium
Ageratum	Fir	Oak
Alyssum	Forget-me-not	Orpine
Andromeda, Jap.	Forsythia	Pachistima
Arborvitae	Four-O'Clock	Pachysandra
Ash	Foxglove	Pecny
Aster	Gaillardia	Petunia
Azalea	Geranium	Pittosporum
Babysbreath	Gladiolus	Podocarpus
Barberry	Golddust	Foker plant
Bellflower	Goldentuft	Poplar
Birch	Gum	Privet
Bleedingheart	Hawthorn	Privet, variegated
Bloodleaf	Heath, pink	Redbud
Boxwood	Holly	Rhododendron
Bugloss	Hydrangea	Rose
Camellia	Honeysuckle	Russian olive
Candytuft	Iris	Sage, scarlet
Chestnut	Ivy, Baltic	Salvia
Chrysanthemum	Ivy, Boston	Snapdragon
Cinquefoil	Ivy, English	Spiderwort, Va.
Coleus	Ivy, Wilson	Spirea
Columbine	Juniper	Spruce
Coneflower, purple	Lantana	Stonecrop
Coreopsis	Larkspur, candle	Strawflower
Coralbells	Lavendercotton	Sundrops
Cosmos	Lilac	Sunflower
Cottoneaster	Lily	Sweet pea
Cottonwood	Locust	Sycamore
Crabapple	Lupine	Tree peony
Cuphea	Magnolia	Tulip tree
Cypress	Maple	Verbena
Dahlia	Marguarite, golden	Viburnum
Delphinium	Marigold	Violet
Deutzia	Mockorange	Walnut
Dogwood	Morningglory	Weigelia
Eleagnus	Moss, rose	Willow
Elm	Mother-of-thyme	Wormwood
Eucalyptus	Mountain Laurel	Yarrow, fern leaf
Evening primrose	Mourning Bride	Yew
		Zinnia

DO NOT USE on the following plants:

Bugleweed	Geum	Pansy
Button pink	Germander	Phlox
Carnation	Mesembryanthemum	Sweet William
		Telanthera

Amount of DACTHAL W-75 to Use in Treating Small Areas

<u>Area to be treated*</u>	<u>Recommended rate of DACTHAL W-75 lb/A</u>	<u>Amount of DACTHAL W-75 to apply</u>	<u>Struck-off (level) Tablespoons</u>
1000 sq. ft. (From 1 to 2 gallons of water should be used to spray 1000 sq ft)	14 (heavy soil)	5 oz	22
	12	4-1/2 oz	19
	10 (medium soil)	3-1/2 oz	16
	8	3 oz	13
250 sq ft (From 1/4 to 1/2 gal of water should be used to spray 250 sq ft)	6 (sandy soil)	2 oz	10
	14 (heavy soil)	1-1/4 oz	5-1/2
	12	1 oz	4-1/2
	10 (medium soil)	3/4-1 oz	4
	8	3/4 oz	3
	6 (sandy soil)	1/2 oz	2-1/2

NOTE: In treating small areas it is important to use care in measuring out required quantity for area to be treated, properly mixing it in water, and keeping it adequately agitated during application.

\*Other size areas to be treated can be calculated from the above table. For example:

To treat 5000 sq ft at the 10 lbs/acre rate, use 5 cups or 80 tbsp. (5x16) in 5 to 10 gallons water (5 x 1 to 2).

To treat 600 sq ft at the 12 lbs/acre rate, use 11.4 tbsp (0.6 x 19) in 0.6 to 1.2 gallons of water (0.6 x 1 to 2).

CAUTION

Harmful if swallowed.  
Avoid contact with eyes and skin.  
In case of contact, flush eyes with plenty of water.  
Wash after handling or using.

DO NOT store near feed and foodstuffs, seeds, fertilizer, or other pesticides in order to prevent contamination.  
DACTHAL W-75 FOR TURF is a wettable powder so store in a dry place.  
Wash out the spray tank thoroughly after use.  
DO NOT reuse container. Destroy when empty.

WARRANTY AND LIMITATION OF DAMAGES

SELLER warrants that this material 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 and BUYER assumes the risk of any use contrary to such directions. SELLER makes no other express or implied warranty, including any other express or implied warranty of FITNESS or of MERCHANTABILITY, and no agent of SELLER is authorized to do so except in writing with a specific reference to this warranty. In no event shall SELLER'S liability for any breach of warranty exceed the purchase price of the material as to which a claim is made.

5-10-73