

TO CONTROL		WHEN TO APPLY	RATE OF DACTHAL FLOWABLE HERBICIDE	REMARKS
Newly-seeded turf	Crabgrass	After new turfgrass seedlings have exhibited a greening of the newly sprouted grass (about 1 to 2 inches high).	7 qts/acre or 1 pt in 3 to 7 gals/3000 sq. ft.	Allows crabgrass control without injury to the new turf.

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

DO NOT use on Dichondra

See recommendations on bentgrass before using on this species.

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ORNAMENTALS: DACTHAL Flowable Herbicide can be applied to a wide range of nursery stock at the rate of 7 to 8 quarts in 40 to 100 gallons of water per acre of area treated (1 pint in 3 to 7 gallons of water/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 all germinating weeds, if made following cultivation. Weed control up to three months or more may be expected following proper application.

DACTHAL Flowable Herbicide 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	Peony
Aster	Gaillardia	Petunia
Azalea	Geranium	Pine
Babysbreath	Gladiolus	Pittosporum
Barberry	Golddust	Podocarpus
Bellflower	Goldentuft	Poker plant
Birch	Gum	Poplar
Bleedingheart	Hawthorn	Privet
Bloodleaf	Heath, Pink	Privet, variegated
Boxwood	Holly	Redbud
Bugloss	Hydrangea	Rhododendron
Camellia	Honeysuckle	Rose
Candytuft	Iris	Russian olive
Chestnut	Ivy, Baltic	Sage, scarlet
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
Cotoneaster	Lily	Sweet pea
Cottonwood	Locust	Sycamore
Crabapple	Lupine	Tree peony
Cuphea	Magnolia	Tulip tree
Cypress	Maple	Viburnum
Dahlia	Marguerite, golden	Violet, African
Delphinium	Marigold	Walnut
Deutzia	Mockorange	Weigela
Dogwood	Morningglory	Willow

Elacagnus	Moss, rose	Wormwood
Elm	Mother-of-Tyhme	Yarrow, fernleaf
Euonymus	Moutain Laurel	Yew
Evening primrose	Mourning Bride	Zinnia

DO NOT use on the following plants:

Bugloweed	Geum	Pansy
Button pink	Germander	Phlox
Carnation	Mesembryanthemum	Sweet William
		Telantha

Amount of DACTHAL Flowable Herbicide to Use in Treating Small Areas

<u>Area to be Treated*</u>	<u>Recommended rate of DACTHAL Flowable Herbicide/A</u>	<u>Amount of DACTHAL Flowable Herbicide to Apply</u>
1000 sq. ft. (From 1 to 2 gallons of water should be used to spray 1000 sq. ft.)	6 to 7 qts. (heavy soil)	5 oz.
	4 to 5 qts. (medium soil)	4 oz.
	3 qts. (sandy soil)	4 oz.
250 sq. ft. (From 1/4 to 1/2 gallon of water should be used to spray 250 sq. ft.)	6 to 7 qts. (heavy soil)	1 1/4 oz.
	4 to 5 qts. (medium soil)	1 oz.
	3 qts. (sandy soil)	1 oz.

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 7 qts/acre rate, use 1 1/2 pts. in 5 to 10 gallons of water.

To treat 500 sq. ft. at the 7 qts/acre rate, use 2 1/2 oz. in 1/2 to 1 gallon of water.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited.

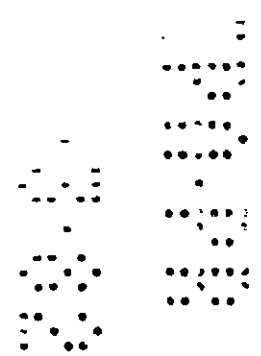
PESTICIDE DISPOSAL: Pesticide, spray mixture or rinsate that cannot be used according to label instructions must be disposed of according to Federal, State or local procedures under the Resource Conservation and Recovery Act.

CONTAINER DISPOSAL: Do Not reuse empty container. Triple rinse (or equivalent) and offer for recycling or reconditioning or dispose of in a sanitary landfill, or by other approved State and local procedures.

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.

EPA Est. No. 677-TX-1



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FRONT PANEL

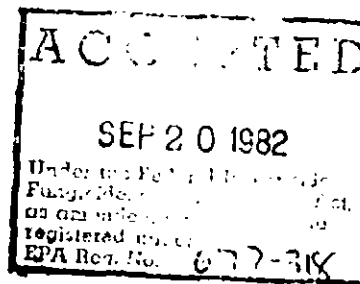
NET CONTENTS

POUNDS/KILOGRAMS

LOGO™

DACTHAL™ FLOWABLE HERBICIDE

TURF CARE™



A Selective Preemergence Herbicide for Nurseries and Professional Ornamental Turf Management

Contains 6.0 pounds DACTHAL per gallon

ACTIVE INGREDIENT: Dimethyl tetrachloroterephthalate . . .	54.92%
INERT INGREDIENTS . . . . .	45.08%
TOTAL: . . . . .	100.00%

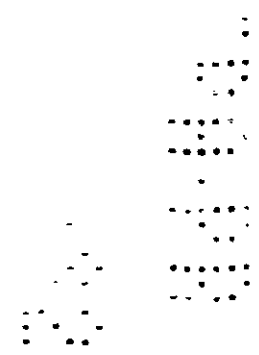
(12 pt. type)      KEEP OUT OF REACH OF CHILDREN      (12 pt. type)

(18 pt. type)                      CAUTION                      (18 pt. type)

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

DIAMOND SHAMROCK CORPORATION  
 AGRICULTURAL CHEMICALS  
 Cleveland, Ohio 44114

EPA Reg. No. 677-318



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LEFT PANEL

PRECAUTIONARY STATEMENTS

HAZARD TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Harmful if swallowed or absorbed through the skin. Avoid contact with eyes, skin or clothing. Avoid breathing spray mist. Wear chemical goggles, gloves, and protective clothing when handling. Wash thoroughly after use.

If swallowed do not induce vomiting. If vomiting occurs spontaneously, keep airway clear. Never give anything by mouth to an unconscious person. Seek medical attention.

In case of contact, flush eyes with plenty of water for at least 15 minutes. Seek medical attention.

Wash exposed skin gently with plenty of soap and water.

If inhaled, remove person to fresh air.

ENVIRONMENTAL HAZARDS

DO NOT apply directly to water. DO NOT contaminate water by cleaning of equipment or disposal of wastes.

DACTHAL FLOWABLE HERBICIDE

A Selective Preemergence Herbicide for Nurseries and Professional Ornamental Turf Management.

Read entire label carefully before and use only as directed.

GENERAL INFORMATION

DACTHAL Flowable HERBICIDE is for use as a preemergence application for control of crabgrass and other annual grasses and certain broadleaf weeds on mineral soils in ornamental turf and nursery stock and as a postemergence application for control of creeping speedwell (*Veronica filiformis*).

The following weeds are grouped according to their susceptibility to DACTHAL Flowable Herbicide applied as a preemergence treatment :

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

Moderately Susceptible (Maximum rates required for effective control): Redroot pigweed, sandbur, dodder, barnyardgrass, goosegrass, browntop panicum, groundcherry, annual bluegrass, johnsongrass (from seed), nodding spurge, spotted spurge and prostrate spurge.

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

#### DIRECTIONS FOR USE

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

Preparation and Application of the Spray: DACTHAL Flowable Herbicide 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 tank, DACTHAL Flowable Herbicide should be added as the spray tank is filling. Adequate agitation should be maintained during filling and spraying to keep material in uniform suspension. Use nozzles suitable for applying wettable powder 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 Flowable Herbicide, 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 for weed seed germination, water must be applied immediately.



Ornamental Turf: Application at the rate of 7 qts of DACTHAL Flowable Herbicide in 40 to 100 gallons of water per acre (1 pt. in 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 season long 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 10 quarts of DACTHAL Flowable Herbicide in 40 to 100 gallons of water per acre (1-½ pts in 3 to 7 gals/3,000 sq.ft.) should supplement the early spring application. Earlier applications are required in Southern 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 Flowable Herbicide 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 Flowable Herbicide application, gives control of crabgrass without injury to newly emerged turf grasses. Fall sowing of permanent grasses can follow early spring applications of DACTHAL Flowable Herbicide.

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

DACTHAL Flowable Herbicide is not recommended for use on putting greens or on bentgrasses mowed at putting green height.

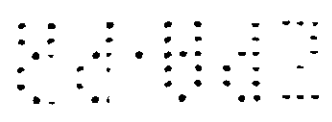
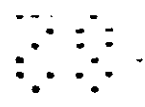
DO NOT feed treated foliage to livestock or graze treated areas.

For control of creeping speedwell (*Veronica filiformis*), apply 2 gallons of DACTHAL Flowable Herbicide 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 FLOWABLE HERBICIDE	REMARKS
Established turf	Crabgrass	Early spring, before crabgrass and other spring annual weed seeds germinate	7 qts/acre or 1 pt in 3 to 7 gal/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 agricultural experiment station or extension service weed specialist for date <u>Poa annua</u> germinates in your area and make application at least two weeks prior to this date	10 qts/acre or 1 1/2 pts in 3 to 7 gals/3000 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	2 gals/acre or 18 fluid ounces in 3-7 gals/3000 sq. ft.	Apply spray to obtain thorough coverage of foliage. Delayed control of creeping speedwell is to be expected and will be noticed first by a gradual loss of color and vigor
	Nodding, Spotted or Prostrate spurges ( <u>Euphorbia maculata</u> <u>E. supina</u> )	Mid-April or before seed germination of annual weeds. Repeat application in 6 to 8 weeks	7 to 8 qts/acre or 15 to 18 ozs in 3 to 7 gals/3000 sq. ft.	Apply first application before seed germination. Repeat application at the same rate 6 to 8 weeks later. In addition to control of spotted spurge or prostrate spurge, crabgrass control is also obtained.



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