

ACCEPTED

AUG 22 1975

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. **677318**

READ ENTIRE LABEL CAREFULLY AND USE ONLY AS DIRECTED
GENERAL INFORMATION

DACTHAL FLOWABLE TURF HERBICIDE is for use as a preemergence application for control of crabgrass and other annual weeds and certain broadleaved weeds of mineral soils in turf and other dry soils.
The following weeds are controlled according to their susceptibility to DACTHAL FLOWABLE TURF HERBICIDE:
Susceptible (at or near recommended rates): Common lambsquarters, smooth crabgrass, large crabgrass, lovegrass, carpet weed, witchgrass, purple top, Florida pusley, yellow foxtail, green foxtail, common chickweed.
Moderately Susceptible (higher rates required for effective control): Redtop, pigweed, sandbar, dodder, barnyardgrass, goosegrass, nutcracker, ground cherry, annual bluegrass, pigweed (from seed).
Tolerant (selective, non-susceptible): Johnsongrass, established broadleaf weeds, nutcracker, johnsongrass, smartweed, nutcracker.

DACTHAL may be used as a postemergence treatment for the control of creeping speedwell.

DIRECTIONS FOR USE

NOTE SLOWLY INVERT CONTAINER SEVERAL TIMES BEFORE USING TO ASSURE UNIFORM MIXTURE

Preparation and Application of the Spray: DACTHAL should be diluted with water in the spray tank with water to provide for 100 gallons of water per acre (100 gallons of water per acre). The required amount of DACTHAL FLOWABLE TURF HERBICIDE should be added to the spray tank according to the directions on the label. Mix thoroughly before use. It is essential that the spray be applied evenly to the turf. A minimum of 100 gallons of water per acre (100 gallons of water per acre) should be used. DACTHAL should be applied to the turf in a uniform manner. Normally, water must be applied within 3 to 5 days of application. If sufficient rainfall does not occur, it is recommended that a dry but subsurface application be made. Water must be applied to the turf.

ORNAMENTAL TURF

DACTHAL FLOWABLE TURF HERBICIDE can be applied to a wide range of ornamentals at the rate of 7 to 100 gallons of water per acre of area treated (1 pint in 3.7 gallons of water/3000 square feet). Applications should be made to soil recently cultivated to a uniform texture. These can be made immediately following laying out of 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 cultural control up to three months or more may be expected following proper application.

When other preemergence herbicides are used, there should be a delay of 30 days after the application of most preemergence herbicides before DACTHAL is applied. The delay is necessary to avoid phytotoxicity. For control of permanent weeds, a second application may be made either in early spring or late summer within 60 to 90 days of seeding.

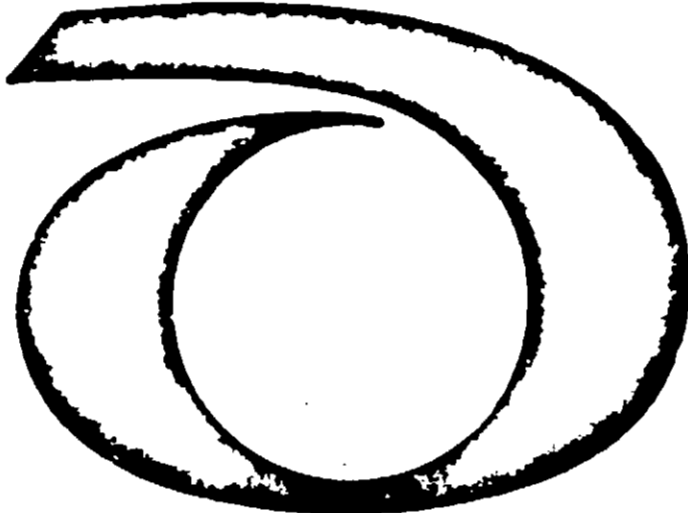
DACTHAL may be used as a postemergence treatment for the control of creeping speedwell.

For control of creeping speedwell (Veronica filiformis) apply 2 quarts of DACTHAL in 4 to 100 gallons of water per acre as a postemergence treatment. Creeping speedwell is a perennial weed which is controlled by DACTHAL. It is usually controlled by a single application. For control of permanent weeds, a second application may be made either in early spring or late summer within 60 to 90 days of seeding.

NET CONTENTS

GALLONS

EPA. REG. NO. 677-318-AA



Diamond Shamrock

DACTHAL FLOWABLE TURF HERBICIDE

A Selective Preemergence Herbicide for Nurseries and Professional Ornamental Turf Management

Contains 6.0 pounds DACTHAL per gallon

ACTIVE INGREDIENT:	
D-methyl tetrachloroterephthalate*	54.7%
INERT INGREDIENTS	45.3%
TOTAL	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 CAUTIONS.

AGRICULTURAL CHEMICALS DIVISION, CLEVELAND, OHIO 44114

DIAMOND SHAMROCK CORPORATION

AGIF-SL-213

FOR USE ON ORNAMENTAL TURF:

	TO CONTROL	WHEN TO APPLY	RATE OF DACTHAL FLOWABLE TURF HERBICIDE	REMARKS
Established turf	Crabgrass	Early spring, before crabgrass and other spring annual weed seeds germinate	7 qts/Acre or 1 pt/3 to 7 gals/3000 sq ft	Apply before Forsythia blossoms to fall. A second application at recommended rate may be required months after the first application if necessary. Should be used following an early spring application for crabgrass.
	Annual bluegrass (Poa annual)	Late summer or early fall in northern states before weed seed germination. Consult agriculture experiment station or extension weed specialist for date Poa annual germinates in your area and make application at least two weeks prior to this date.	10 qts/Acre or 1 1/2 pt/1 to 2 gals/1000 sq ft	
	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.	2 gallons/Acre or 6 fluid ounces/1 to 2 gals/1000 sq ft	Apply spray to obtain thorough coverage. Delayed control of speedwell approximately 30 days is expected and will be noticed as 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)	7 qts/Acre	

CAUTION: After DACTHAL treatment, wait approximately 60 days before any new seeding is undertaken. Fall seeding can follow only a single application made either in early spring up to not less than 60 to 90 days of seeding. DO NOT use on Dichondra.

ORNAMENTALS: DACTHAL FLOWABLE TURF HERBICIDE can be applied to a wide range of ornamentals at the rate of 7 to 100 gallons of water per acre of area treated (1 pint in 3.7 gallons of water/3000 square feet).

Applications should be made to soil recently cultivated to a uniform texture. These can be made immediately following laying out of 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 cultural control up to three months or more may be expected following proper application.

DACTHAL FLOWABLE TURF HERBICIDE is specifically recommended for weed control with the following:

Abelia	Cuphea	Ivy, English	Poker plant
Ageratum	Cypress	Ivy, Wilson	Poplar
Alyssum	Dahlia	Juniper	Privet
Andromeda, Jap.	Delphinium	Lantana	Privet, variegated
Arborvitae	Deutzia	Larkspur, candle	Redbud
Ash	Dogwood	Lavender/cotton	Rhododendron
Aster	Elaeagnus	Lilac	Rose
Azalea	Elm	Lily	Russian olive
Babysbreath	Euonymus	Locust	Sage, scarlet
Barberry	Evening primrose	Lupine	Snapdragon
Bellflower	Feverfew	Magnolia	Spiderwort, Va
Birch, Gum	Fir	Maple	Sprea
Bleedingheart	Forsythia	Marguerite, golden	Spruce
Bloodleaf	Four O'Clock	Marygold	Stonewort
Borwood	Foxglove	Morokorange	Strawflower
Bugloss	Garlandia	Morningglory	Sundrops
Camellia	Geranium	Moss, rose	Sunflower
Candytuft	Gladolus	Mother of Thyme	Sweet pea
Chestnut	Goldcrest	Mountain Laurel	Sycamore
Chrysanthemum	Goldfinch	Mourning Bride	Tee peony
Cinquefoil	Goldenrod	Nasturtium	Tulip tree
Coleus	Gum	Oak	Viburnum
Columbine	Hawthorn	Orpine	Violet
Cornflower, purple	Heath, pink	Pachistima	Walnut
Cornopsis	Hebe, pink	Pachysandra	Weigela
Coralbells	Helleborus	Peony	Willow
Comus	Hydrangea	Petunia	Wormwood
Cottonaster	Iris	Pinus	Arrow fern
Cottonwood	Ivy, Boston	Pod, arpus	Yew
Crabapple			Zinnia

DO NOT USE on the following plants:

Bugleweed	Geranium	Ransy
Butter pink	Germander	Phlox
Carnation	Mesembryanthemum	Sweet William
		T. anthera

ACCEPTED

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Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. **677318**

Reduced from the original size (8½"x16½")

FOR USE ON ORNAMENTAL TURF:

TO CONTROL	WHEN TO APPLY	RATE OF DACTHAL FLOWABLE TURF HERBICIDE	REMARKS
Established turf Crabgrass	Early spring, before crabgrass and other spring annual weed seeds germinate	7 qts./Acre or 1 pt./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 two weeks prior to this date.	10 qts./Acre or 1 1/2 pt./1 to 2 gals./1000 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.	2 gallons/Acre or 6 fluid ounces/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)	7 qts./Acre	

CAUTION: After DACTHAL treatment, wait approximately 60 days before any new seeding is undertaken. Fall seeding can follow only a single application made either in early spring up to not less than within 60 to 90 days of seeding. DO NOT use on Dichondra.

ORNAMENTALS: DACTHAL FLOWABLE TURF HERBICIDE can be applied to a wide range of ornamentals at the rate of 7 to 8 quarts in 40 to 100 gallons of water per acre of area treated (1 pint in 3.7 gallons of water/3000 square feet). Applications should be made to soil recently cultivated to a uniform texture. These can be made immediately following liming 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 FLOWABLE TURF HERBICIDE is specifically recommended for weed control with the following:

Abelia	Cuphea	Ivy, English	Poker plant
Ageratum	Cypress	Ivy, Wilson	Poplar
Alyssum	Dahlia	Juniper	Privet
Andromeda, Jap.	Delphinium	Lantana	Privet, variegated
Arborvitae	Deutzia	Larkspur, candle	Redbud
Ash	Dogwood	Lavender/cotton	Rhododendron
Aster	Elaeagnus	Lilac	Rose
Azalea	Elm	Lily	Russian olive
Babysbreath	Euonymus	Locust	Sage, scarlet
Barberry	Evening primrose	Lupine	Snapdragon
Bellflower	Feverfew	Magnolia	Spiderwort, Va.
Birch, Gum	Fn	Maple	Spiraea
Bleedingheart	Forget me not	Marguerite, golden	Spruce
Bloodleaf	Forsythia	Marijold	Stonecrop
Buxwood	Four O'Clock	Mokororange	Strawflower
Bugloss	Foxglove	Morningglory	Sundrops
Camellia	Gaillardia	Moss, rose	Sunflower
Candytuft	Geranium	Mother of Thyme	Sweet pea
Chestnut	Gladolus	Mountain Laurel	Sycamore
Chrysanthemum	Goldcrest	Mourning Bride	Tree peony
Cinquefoil	Goldenluff	Nasturtium	Tulip tree
Coleus	Gum	Oak	Viburnum
Columbine	Hawthorn	Orpine	viola
Con-flower, purple	Heath pink	Pachistima	Walnut
Coreopsis	Hydrangea	Parhysandra	Weigela
Coralbells	Honeysuckle	Peony	Willow
Cornus	Iris	Petunia	Wormwood
Cottonaster	Ivy, Baltic	Pinck	Yarrow, fernlet
Cottonwood	Ivy, Boston	Pittosporum	Yew
Creosote		Podarabus	Zinnia

DO NOT USE on the following plants:

Bugleweed	Gum	Fancy
Button pn	Germander	Phlox
Carnation	Mesembryanthemum	Sweet William
		T. Anthera

Amount of DACTHAL FLOWABLE TURF HERBICIDE to use in Treating Small Ornamental Areas

Area to be treated*	Recommended rate of DACTHAL-qt./A	Amount of DACTHAL to apply (fluid ounces)	Level Tablespoons
1000 sq. ft. (from 1 to 2 gallons of water should be used to spray 1000 sq. ft.)	8 (heavy soil) 7 (medium to light soil)	6 5	12 10
250 sq. ft. (from 1/4 to 1 gallon of water should be used to spray 250 sq. ft.)	8 (heavy soil) 7 (medium to light soil)	1 1/2 1 1/4	3 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. Two tablespoonsful equal one fluid ounce (16 tablespoonsful equal one cupful).

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 FLOWABLE TURF HERBICIDE should be stored in a cool place. Protect from excess heat.
Wash out the spray tank thoroughly after use. DO NOT contaminate water by cleaning of equipment or disposal of water.
DO NOT leave spray mixture in spray tank over 4 hours without continuous agitation.
DO NOT graze on treated areas or feed plant refuse to livestock.
DO NOT reuse container. Destroy by burying with waste or discarding in a safe place.

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 of FITNESS or 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.

318-AA **GALLONS**

Shamrock

FLOWABLE HERBICIDE

Preemergence Herbicide for Professional Ornamental Plant Management

16.5 pounds DACTHAL per gallon

54.7%
45.3%
100.0%

Preemergence herbicide patented under Patent No. 2,923,634

KEEP OUT OF REACH OF CHILDREN.
SEE PANEL FOR ADDITIONAL CAUTIONS.
DIVISION, CLEVELAND, OHIO 44114

SHAMROCK CORPORATION