

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS & DOMESTIC ANIMALS

CAUTION

Harmful if swallowed. Do not get in eyes or on skin. Wash thoroughly after handling or using. If on skin, wash with plenty of water. If in eyes, flush with plenty of water. Get medical attention if irritation persists.

ENVIRONMENTAL HAZARDS

Keep out of lakes, ponds or streams. Do not contaminate water by cleaning of equipment or disposal of wastes.

| Soil Type | Organic Matter % | Broadcast Rate of DACTHAL WP/A |
|--------------------------|------------------|--------------------------------|
| Light sand or sandy loam | 0-3 | 6-8 pounds |
| Medium-silt loam | 0-3 | 8-10 pounds |
| Heavy clay loam | 0-3 | 10-14 pounds |
| Heavy-silt loam | 3-6 | 12-14 pounds |

The following weeds are grouped according to their susceptibility to DACTHAL WP.

Susceptible (controlled at recommended rates): Common lambsquarters, smooth crabgrass, large crabgrass, lovegrass, carpetweed, witchgrass, purslane, Florida pusley, yellow 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, mustard, jimsonweed, galinsoga, smartweed, nutsedge.

Replanting: Replanting crops over than those included on this label in DACTHAL WP treated soil within 8 months of application may result in crop injury. If replanting is required because of an early crop failure, the planting of onions, seeded cucurbits, potatoes, tomatoes, eggplants or pepper at this time may result in crop injury. However, all crops on this label may be planted following harvest of a DACTHAL WP treated crop.

Ornamental Turf: Application at the rate of 14 lbs. of DACTHAL WP in 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 annual) 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 WP in 40 to 100 gallons of water per acre (1 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 data. Poa annua seed germinates in your area and make application at least two weeks prior to this date.

Early spring application of DACTHAL WP 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 WP applications, give control of crabgrass without injury to newly-emerged grass. Fall sowing of permanent grasses can follow early spring application of DACTHAL WP.

Where some spring seeding is necessary, there should be a delay of approximately 80 days after the application of most preemergence herbicides, including DACTHAL WP. This delay increases the survival of desirable grasses.

DACTHAL WP is not recommended for use on putting-greens.

DACTHAL WP is not recommended for use on bermgrasses mowed at putting-green height. For control of creeping speedwell (Veronica filiformis), apply 16 pounds of DACTHAL 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 60° and 80° F, and there is ample moisture. Thorough coverage is essential. Delayed control of creeping speedwell is to be expected and be manifested first by a gradual loss of color and vigor.

Nursery Stock: DACTHAL WP can be applied to a wide range of nurseries at a rate of 14 to 20 pounds in 40 to 100 gallons of water per acre of area treated (1 pound in 3000 sq. ft.).

Applications should be made to soil recently cultivated to a uniform depth. There should be a delay of approximately 80 days after application of DACTHAL WP to soil which has been recently cultivated to remove existing weeds. Where possible, this delay should be made by the application of a preemergence herbicide. Application may prove beneficial for control of fall germinating weeds. Following cultivation, control up to three months or more may be expected.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container. Pesticide, spray mixture or rinsate that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticides or buried in a safe place away from water supplies.

CONTAINER DISPOSAL: Triple rinse (or equivalent) and dispose in an incinerator or landfill approved for pesticide container, or bury in a safe place. Consult Federal, State or Local Disposal Authorities for approved alternate procedures such as limited open burning.

GENERAL INFORMATION

A selective preemergence herbicide for control of annual grass and certain broadleaved weeds in vegetable crops and ornamental turf. Read entire label carefully and use only as directed.

DACTHAL WP 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 vegetables, strawberries, agronomic crops, ornamentals and turf.

Preparation and Application of the Spray: DACTHAL WP should be thoroughly mixed in the spray tank with water to provide 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 WP 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 the 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 spray be properly calibrated before making applications. Standards low pressure (30-50 psi) boom-type sprayers are recommended.

Aircraft Application: It is recommended that DACTHAL WP be applied in a minimum of 10 gallons of spray per acre. Aircraft should be equipped with pumps with sufficient capacity to deliver at least 10 gallons per acre. Placement of nozzles should provide a uniform spray pattern. DACTHAL WP should be pre-mixed in a nurse tank or mixing tank equipped with mechanical or by-pass agitation. Mixture can then be pumped in to the aircraft. Screens on mixing tank should be no finer than 50 mesh. Adequate agitation should be maintained in the mixing tank as well as the aircraft throughout the spraying operation. Regulations governing aerial application of herbicides are in effect in many states. Consult local regulatory agencies concerning requirements before making applications. Avoid spray drift to adjacent fields; particular care should be exercised when adjacent fields contain edible crops or those that will be fed or grazed by livestock. Spray only on still days.

A minimum of one-third to one-half inch of water, either as rain or irrigation is necessary to activate DACTHAL WP 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 should be applied immediately. If furrow irrigation is used, the top of the bed must be thoroughly wet. If rainfall during this period does occur and irrigation cannot be made, shallow incorporation, when recommended, will aid in weed control.

Soil Preparation: Prior to making application, the soil should be cultivated to provide a weed-free and uniform surface since DACTHAL WP herbicide is effective only when applied before weed seed germination occurs. Unless incorporated, DACTHAL WP should be applied within two to three days following cultivation, to prevent subsurface germinating weeds from becoming established. When cultivating between rows, use shields on cultivator to prevent untreated soil from covering treated bands. Cultural practices, such as forming crop beds, should be completed prior to DACTHAL WP application in order to avoid exposing untreated soil in the bottom of the furrow and concentrating the sprayed soil within the bed.

Soil Incorporation: (Do not incorporate deeper than 2 inches.) Shallow soil incorporation, when recommended, (see specific crop recommendation) often gives more consistent results. Depending on crop and time of application, several incorporation methods may be used.

Preplant Incorporation: This type of incorporation often provides better weed control on irrigated land, and also on non-irrigated land when dry weather is anticipated following planting. When recommended, DACTHAL WP can be sprayed on the soil surface and then incorporated into the soil using a disc harrow or related tillage equipment. To insure complete incorporation, double disc in two directions. For incorporating banded treatments, hooded power driven rotary tillers or ground tillers are essential.

Delayed Preemergent Incorporation: For crops where preplant incorporation can be used (see recommendation), incorporation at this time should be used when adequate rainfall or irrigation is not available within 3 to 5 days after planting. Lightly incorporate (1/2 to 1 inch deep) with drag harrow, rotary hoe or other suitable tillage equipment.

Layby Incorporation: (Just prior to stage when plant growth would prevent further cultivation). Cultivate soil to remove established weeds. Apply DACTHAL WP over top of foliage and lightly incorporate with suitable equipment.

Rates of Application and Weeds Controlled: DACTHAL WP is recommended at rates of 6-14 lbs./A, depending on soil type and weeds to be controlled. The following table outlines general recommendation for the use of DACTHAL WP on various soil types. The maximum rate for each soil type should be used when moderately susceptible weeds are present. Specific recommendations for each crop should be consulted. DACTHAL WP should not be applied to certain crops under conditions of cool, wet weather when plants are not actively growing. Refer to specific label recommendations for seeded melons, tomatoes, peppers, onions and eggplants for further details.

| For Use on Turf: | To Control | When to Apply | Rate of DACTHAL WP | Remarks |
|-------------------|--|---|--|---|
| Established turf | Crabgrass | Early Spring, before crabgrass and other 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 (Poa annual) | Late summer or early fall in Northern states before weed seed germination. Consult agricultural experiment station or extension weed specialist for data. Poa annua germinates in your area and make application at least two weeks prior to this date. | 20 lb./Acre or 1 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 postemergence spray in spring or early fall when creeping speedwell is growing vigorously, there is ample soil moisture and temperature is between 70° and 80° F. | 16 lb./Acre or 1 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 lb./Acre | Allows crabgrass control without injury to the new turf. |

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Griffin

ACCEPTED
MAY 20 1981
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 1812-256

Dacthal

75%

WETTABLE POWDER HERBICIDE

(75% WETTABLE POWDER)

ACTIVE INGREDIENTS:

Dimethyl tetra... 75.0%

INERT INGREDIENTS... 25.0%

TOTAL... 100.0%

KEEP OUT OF REACH OF CHILDREN

CAUTION:

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

Get medical attention if irritation persists.

See Side Panel For Additional Precautionary Statements.

Griffin

GRIFFIN CORPORATION
VALDOSTA, GEORGIA 31601
NET CONTENTS _____

E.P.A. Reg. No. 1812-256
E.P.A. Est. No. 1812-GA-3

Caution: After DACTHAL WP 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.

DACTHAL WP is specifically recommended for weed control with the following:

- | | | | | |
|-------------------|------------------|------------------|--------------------|------------------|
| Abelia | Coreopsis | Glaucous | Marguerite, golden | Rose |
| Ageratum | Coralbells | Golddust | Marigold | Russian olive |
| Alyssum | Cosmos | Goldentuft | Mockorange | Sage, scarlet |
| Andromeda, Jap. | Cotoneaster | Gum | Morningglory | Snapper |
| Arborvitae | Cottonwood | Hawthorn | Moss, rose | Spiderwort, Va. |
| Ash | Crabapple | Heath, pink | Mother-of-Thyme | Spiraea |
| Aster | Cupress | Holly | Mountain Laurel | Spruce |
| Azalea | Cypress | Hydrangea | Mourning Bride | Stonecrop |
| Babysbreath | Dahlia | Honeysuckle | Nasturtium | Strawflower |
| Barberry | Delphinium | Iris | Oak | Sundrops |
| Bellflower | Deutzia | Ivy, Baltic | Opine | Sunflower |
| Birch | Dogwood | Ivy, Boston | Pachistima | Sweet pea |
| Bleedingheart | Elaeagnus | Ivy, English | Pachysandra | Sycamore |
| Bloodleaf | Elm | Ivy, Wilson | Panicum | Trees peony |
| Boxwood | Euonymus | Juniper | Paspalum | Tulip tree |
| Bugloss | Evering prizrose | Lantana | Pennisetum | Viburnum |
| Camelia | Feverfew | Larkspur, purple | Piper | Violet, African |
| Candytuft | Fir | Leopard plant | Pitcairnia | Walnut |
| Chestnut | Forget-me-not | Lychnis | Podocarpus | Weigela |
| Chrysanthemum | Foraythia | Lythrum | Poker plant | Willow |
| Cinquefoil | Four o'clock | Lythrum | Poplar | Wormwood |
| Coleus | French marigold | Lythrum | Privet | Yarrow, fernleaf |
| Columbine | Geranium | Lythrum | Prunella | Yew |
| Conflower, purple | Geranium | Lythrum | Rhododendron | Zinnia |

Use on the following plants: Pansy, Phlox, Sweet William, Talanthea

DACTHAL WP to Use in Treating Small Areas

| Area to be treated* | Recommended rate of DACTHAL WP lb/A | Amount of DACTHAL WP to Apply | Struck-off (level) Tablespoons |
|---|-------------------------------------|-------------------------------|--------------------------------|
| 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 (sandy soil) | 3 oz. | 13 |
| 250 sq. ft. (From 1/4 to 1/2 gallon to water should be used to spray 250 sq. ft.) | 14 (heavy soil) | 1 1/2 oz. | 6 1/2 |
| | 12 | 1 oz. | 4 1/2 |
| | 10 (medium soil) | 3/4 oz. | 4 |
| | 8 (sandy soil) | 1/2 oz. | 3 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 lb./acre rate, use 80 tbs. (5 x 16) in 5 to 10 gallons of water (5 x 1 x 2).

To treat 600 sq. ft. at the 12 lb./acre rate, use 11.4 tbs. (10.6 x 1.9) in 0.6 to 1.2 gallons of water (0.6 x 1 to 2).

Rate of application can be reduced by banding.

See Conversion Chart

Conversion Chart for DACTHAL WP
For a 12-inch band of spray, use this amount of DACTHAL WP per acre

| Row Width | If overall rate is: | | | |
|-----------|---------------------|-----------------|------------------|------------------|
| | 8 lbs. per acre | 8 lbs. per acre | 10 lbs. per acre | 12 lbs. per acre |
| 24 inches | 3 pounds | 4 pounds | 5 pounds | 6 pounds |
| 32 inches | 2 1/2 pounds | 3 pounds | 3 1/2 pounds | 4 1/2 pounds |
| 36 inches | 2 pounds | 3 1/2 pounds | 3 1/2 pounds | 4 pounds |
| 40 inches | 1 1/2 pounds | 2 1/2 pounds | 3 pounds | 3 1/2 pounds |

Special Precautions: Do not feed treated foliage to livestock or graze treated areas. Applied according to directions and under conditions favorable to good plant growth, DACTHAL WP will not harm crops for which its use is recommended. However, conditions such as high salt concentration, seedling disease, cool weather, deep planting, excessive moisture or drought may injure or weaken crops normally tolerant to DACTHAL WP, thereby increasing the possibility of herbicide damage. Under any of these conditions, one or more of the following may result: delayed crop development, reduced yields, or reduced quality.

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.

