

# **ORNAMENTAL TURFS (NEWLY SEEDED TURF) - CRABGRASS CONTROL**

## General Information

### GENERAL INFORMATION

DACTHAL FLOWABLE is a flowable 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, ornamental, turf, and nursery stock and as a post-emergence application for control of creeping speedwell (*Veronica filiformis*). Dacthal Flowable Herbicide is compatible with liquid nitrogen fertilizers commonly used by the lawn care industry.

### DIRECTIONS FOR USE

This product is not for sale, use or distribution in Suffolk and Nassau County, Long Island, New York.

Preparation and Application of the Spray: DACTHAL FLOWABLE 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. 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 sprayer be properly calibrated before making applications. Standard low-pressure (30-50 psi) boom-type sprayers are recommended.

A minimum of one-third to one-half inch of water, either as rain or irrigation, is necessary to activate DACTHAL FLOWABLE 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 not occur and irrigation cannot be

made, shallow incorporation, when recommended, will aid in weed control.

**Aircraft Application:** It is recommended that DACTHAL FLOWABLE 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 FLOWABLE should be premixed in a nurse tank or mixing tank equipped with mechanical or bypass agitation. Mixture can then be pumped into the aircraft. Screens on mixing tanks 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.

**Soil Preparation:** Prior to making application, the soil should be cultivated to provide a weed-free and uniform surface since DACTHAL FLOWABLE herbicide is effective only when applied before weed seed germination occurs. Unless incorporated, DACTHAL FLOWABLE 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 FLOWABLE 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 FLOWABLE 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 specific crop 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 (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 FLOWABLE over top of foliage and lightly incorporate with suitable equipment.

**Off-Site Movement Under California Growing Conditions:** Current research indicates a propensity for off-site movement of certain soil-applied pesticides in California's unique growing conditions. Pesticides, such as DACTHAL FLOWABLE, may be moved off-site through a process called co-distillation. This phenomenon has been shown to occur where bare soil is treated (crops not present) and the soil surface is very hot. The pesticides, though not highly volatile, appear to be carried from the soil surface with water molecules during rapid evaporation that occurs immediately after irrigation. Banding applications of preemergence herbicides, such as DACTHAL FLOWABLE, significantly reduces the potential for off-site movement by reducing the amount of product used to treat a given crop area.

Limitations, Restrictions, and Exceptions

## ORNAMENTAL TURF

Application at the rate of 14 pts of DACTHAL FLOWABLE in 40 to 100 gallons of water per acre (1 pt./3 to 7 gals/3,000 sq. ft.) gives excellent control of crabgrass and other weeds as listed on the label. In California, DACTHAL FLOWABLE applications to turf should be watered within 4 hours with 0.1 to 0.2 inches of water by irrigation. 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 lategerminating grasses and weeds in northern states, a late summer or early fall

application before weed seed germination of 10 quarts of DACTHAL FLOWABLE in 40 to 100 gallons of water per acre (1/2 pts/3 to 7 gals./3,000 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 FLOWABLE 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 applications give control of crabgrass without injury to newly-emerged grass. Fall sowing of permanent grasses can follow early spring application of DACTHAL FLOWABLE. Where some spring seeding is necessary, there should be a delay of approximately 60 days after the application of most preemergence herbicides, including DACTHAL FLOWABLE. This delay increases the survival of desirable grasses.

DACTHAL FLOWABLE is not recommended for use on putting greens.

DACTHAL FLOWABLE is not recommended for use on bentgrasses mowed at putting green height. For control of creeping speedwell (*Veronica filiformis*), apply 16 pints of DACTHAL FLOWABLE 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.

**IMPORTANT:** After DACTHAL FLOWABLE 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.

Method

[Broadcast/Foliar Air](#)

[Broadcast/Foliar Ground](#)

Rates

[field rates 0](#)

## field\_rates 1

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Restricted Entry Interval

12 hours

Exception: If the product is soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

Timings

Early spring, before crabgrass and other spring annual weed seeds germinate.