

COLLARDS, KALE, KALE, ETC.

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

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Apply uniformly to the soil as a spray at time of seeding. Can be preplant incorporated. In California, applications must be banded and incorporated as described.

See label for specific rate to be used for each weed category (Susceptible, Moderately Susceptible and Difficult to control weeds).

Note: Rates can be reduced by banding.

Fruits of the gourd (Cucurbitaceae) family that are consumed when immature, 100% of the fruit is edible either cooked or raw, once picked it cannot be stored, has a soft rind which is easily penetrated, and if seeds were harvested they would not germinate; e.g., *Lagenaria* spp. (i.e., hyotan, cucuzza); *Luffa* spp. (i.e., hechima, Chinese okra); *Momordica* spp. (i.e., bitter melon, balsam pear, balsam apple, Chinese cucumber); *Sechium edule* (chayote); and other cultivars and/or hybrids of these.

Method

[Broadcast/Foliar Air](#)

[Broadcast/Foliar Ground](#)

[Band application](#)

[Soil application](#)

[Broadcast/Foliar Air](#)

[Broadcast/Foliar Ground](#)

[Band application](#)

[Soil application](#)

[Broadcast/Foliar Air](#)

[Broadcast/Foliar Ground](#)

[Band application](#)

[Soil application](#)

Rates

[field_rates 0](#)

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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

[Preplant Incorporated](#)

[Preemergence \(Weed\)](#)

[At seeding](#)