

Dacthal® G-2.5

(2.5% Dacthal Granules)

A selective pre-emergence herbicide for control of annual grasses and certain broad leaved weeds in home vegetable gardens, ornamental planting, nursery stock and certain commercial vegetable crops.

Active Ingredient:	By Wt.
DCPA (dimethyl tetrachloroterephthalate)	2.5%
Inert Ingredients:	97.5%
Total	100.0%

ACCEPTED

DEC 6 2005

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

**Keep Out of Reach of Children
CAUTION**

See side panel for additional precautionary statements.

5481-488

FIRST AID	
If inhaled	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
If on skin or clothing	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
If in eyes	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
If swallowed	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by the poison control center or doctor. • Do not give anything by mouth to an unconscious person.
Emergency Telephone Number	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. Questions? Call 1-888-462-6822. In case of spills, contact Chemtrec at 1-800-424-9300	

NET CONTENTS: As Marked on Container
EPA Reg. No. 5481-488

EPA Est. No. 50534-TX-1



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Precautionary Statements

Hazards to Humans and Domestic Animals

CAUTION

Harmful if absorbed through skin. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material,
- Shoes and socks

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

Engineering Controls

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

User Safety Recommendations

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Wash the outside of gloves before removing.
- Remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing.

Environmental Hazards

Collect and incorporate granules spilled on the soil surface. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water by when cleaning of equipment or disposing of equipment washwaters.

Groundwater Advisory: Tetrachloroterephthalic acid, a breakdown product of Dacthal, is known to leach through soil as a result of agricultural and turf uses and has been found in groundwater which may be used for drinking water. Users are advised not to apply Dacthal to sand and loamy sand soils where the water table (groundwater) is close to the surface and where these soils are very permeable; i.e., well drained. Consult with the state pesticide lead agency for information regarding soil permeability and aquifer vulnerability in your area.

Surface Water Advisory: DCPA can contaminate surface water through spray drift. Under some conditions, DCPA may also have a high potential to contaminate surface water through runoff (via both dissolution in runoff water and adsorption to eroding soil) for several weeks post-application. Users are advised not to apply DACTHAL W-75 to poorly draining or wet soils with readily visible sloping towards adjacent surface waters, frequently flooded areas, areas over-laying extremely shallow groundwater, areas with in-field canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetated filter strips, and highly erodible soils.

Dacthal® G-2.5 Herbicide

Read entire label carefully and use only as directed.

General Information

DACTHAL G-2.5 is a 2.5% granular formulation for use as a preemergence application for control of crabgrass and other annual grasses and certain broadleaved weeds on mineral soils. DACTHAL G-2.5 is recommended for use on Turf; Nursery Stock; Strawberries; Seeded: broccoli, brussels sprouts, cabbage, cauliflower, collards, kale, melons (cantaloupe, honeydew, watermelon), mustard greens, onions, turnip greens and turnips; Transplants: broccoli, brussels sprouts, cabbage, cauliflower, eggplant, onions, sweet potatoes, and tomatoes.

Application should be made to a uniform weed-free soil surface within two to three days maximum following cultivation to prevent subsurface germinating weeds from becoming established. Disturbing the soil surface following application will reduce effectiveness. Rates of application can be reduced on crops by banding.

DACTHAL G-2.5 can also be applied by the shaker can method. The ideal way of doing this is to measure off the acre to be treated into small plots and then evenly sprinkle the prescribed quantity of DACTHAL granules over this area.

DO NOT apply this product through any type of irrigation equipment.

Conversion Table - Acre to Smaller Areas		
If Rate per Acre is	Amount of DACTHAL G-2.5 to Apply	
	250 Sq. Ft.	1,000 Sq. Ft.
320 pounds per acre	1 lb. 13 oz.	7 lbs. 5 oz.
360 pounds per acre	2 lbs. 1 oz.	8 lbs. 4 oz.
420 pounds per acre	2 lbs. 6 oz.	9 lbs. 10 oz.
600 pounds per acre	3 lbs. 7 oz.	13 lbs. 12 oz.

If there is no rain within three or four days after DACTHAL G-2.5 application, sprinkler irrigation (½ to 1 inch of water) should be used for best results.

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

Weed Control Spectrum

DACTHAL is a preemergence herbicide which provides effective control of annual grasses and certain broadleaved weeds. The following weeds are grouped according to their susceptibility to DACTHAL:

Susceptible Weeds

Controlled at Lowest Recommended Rates for Each Soil Type

Carpetweed	Lovegrass
Chickweed, Common	Nettle, Burning
Crabgrass, Large	Pansy, Field
Crabgrass, Smooth	Purslane
Foxtail, Green	Pusley, Florida
Foxtail, Yellow	Witchgrass
Lambsquarters, Common	

Moderately Susceptible Weeds

Highest Recommended Rates for Each Soil Type Required for Effective Control

Barnyardgrass	Johnsongrass (from seed)
Bluegrass, Annual	Knotweed, Prostrate
Copperleaf, Rhombic	Nightshade, Black

Copperleaf, Virginia
(three-seeded mercury)
Dodder
Deadnettle, Purple
Deadnettle, Spotted
Goosegrass
Groundcherry

Panicum, Brown Top
Pigweed, Redroot
Sandbur
Spurge, Nodding
Spurge, Prostrate
Spurge, Spotted

Difficult to Control Weeds

Commercially acceptable control of the following weeds may not always be obtained but weed population will be suppressed when applied at the maximum rate, thus resulting in less competition with emerging and growing crop.

Buckwheat, Wild
Canarygrass, Littleseed
Dock, Curly (from seed)
Foxtail, Giant
Goosefoot, Nettleleaf
Henbit
Knotweed, Silversheath
Ladysthumb

Panicum, Fall
Panicum, Texas
Polypogon, Rabbitfoot
Rocket, London
Shepherdspurge
Sowthistle, Annual
Vaseygrass
Witchweed

Weeds Not Controlled with DACTHAL

Galinsoga
Jimsonweed
Johnsongrass (from rhizomes)
Mustards

Nutsedge
Ragweed, Common
Smartweed
Velvetleaf

Directions for Use

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

DO NOT APPLY IN SUFFOLK AND NASSAU COUNTIES IN LONG ISLAND, NEW YORK.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

DO NOT enter or allow worker entry into treated areas during the restricted entry interval (REI) of 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.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls
- Chemical-resistant gloves made of any waterproof material, and
- Shoes plus socks

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses. Do not enter or allow others to enter treated area until dusts have settled. If soil incorporation is required following the application, do not enter or allow others to enter the treated area (except those persons involved in the incorporations) until the incorporation is complete. If the incorporation is accomplished by watering-in, do not enter or allow others to enter the treated area until the surface is dry following the watering-in.

Nursery Stock or Ornamental Plantings: Apply at lining out, late fall, or early spring at the rate of 360 lbs. G-2.5 per acre. 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 done early in spring. Late summer applications 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 G-2.5 is specifically recommended for weed control on the following nursery and ornamental plantings:

Abelia	Fir	Nasturtium
Ageratum	Forget-Me-Not	Oak
Alyssum	Forsythia	Orpine
Andromeda, Jap.	Four-O'Clock	Pachistima
Arborvitae	Foxglove	Pachysandra
Ash	Gaillardia	Peony
Aster	Geranium	Petunia
Azalea	Gladiolus	Pine
Babysbreath	Golddust	Pittosporium
Barberry	Goldentuft	Podocarpus
Bellflower	Gum	Poker Plant
Birch	Hawthorn	Poplar
Bleedingheart	Heath, Pink	Privet
Bloodleaf	Holly	Privet, variegated
Boxwood	Hydrangea	Redbud
Bugloss	Honeysuckle	Rhododendron
Camellia	Iris	Rose
Candytufts	Ivy, Baltic	Russian Olive
Chrysanthemum	Ivy, Boston	Sage, Scarlet
Cinquefoil	Ivy, English	Snapdragon
Coleus	Ivy, Wilson	Spiderwort, Va.
Columbine	Juniper	Spirea
Coneflower, Purple	Lantana	Spruce
Coreopsis	Larkspur, Candle	Stonecrop
Coralbells	Lavendercotton	Strawflower
Cosmos	Lilac	Sundrops
Cotoneaster	Lily	Sunflower
Cottonwood	Locust	Sweet Pea
Cuphea	Lupine	Sycamore
Cypress	Magnolia	Tree Peony
Dahlia	Maple	Tulip Tree
Delphinium	Marguerite, Golden	Viburnum
Deutzia	Marigold	Violet, African
Dogwood	Mockorange	Weigelia
Elaeagnus	Morningglory	Willow
Elm	Moss, Rose	Wormwood
Euonymus	Mother-of-Thyme	Yarrow, Fernleaf
Evening Primrose	Mountain Laurel	Yew

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Feverfew

Mourning Bride

Zinnia

Do not use on the following plants:

Bugleweed
Button Pink
Carnation
Geum

Germander
Mesembryanthemum
Pansy
Phlox

Sweet William
Telanthera

Note: See General Information to determine proper rate for your weed complex. Any application of DACTHAL should be made prior to weed seed germination.

Broccoli, Brussels Sprouts, Cauliflower, Cabbage and all other Brassica (Cole) Leafy Vegetables in this crop group^{1*}

When to Apply: At seeding or transplanting.

Rate/Acre: 320 to 420 lbs. Dacthal G-2.5 (See Rates of Application)

Remarks:

Apply uniformly to the soil. Dacthal G-5 can be applied directly over transplants without injury. If weeds have emerged, soil should be clean cultivated or weeded prior to application. Can be preplant incorporated.

^{1*}Brassica leafy vegetables crop group includes broccoli, Chinese (gai lon, white flowering) broccoli, broccoli raab (rapini), brussels sprouts, cabbage, Chinese cabbage (bok choy, napa, tight-heading varieties), Chinese mustard cabbage (gai choy), cauliflower, cavalo broccolo, collards, kale, kohlrabi, mizuna, mustard greens, mustard spinach and rape greens.

Chayote (fruit), Chinese waxgourd (Chinese preserving melon), gherkin, gourd, edible (includes hyotan, cucuzza, hechima, Chinese okra), Momordica spp (includes balsam apple, balsam pear, bittermelon, muskmelon (includes hybrids and/or varieties of Cucumis melo (including true cantaloupe, cantaloupe, casaba, Santa Claus melon, crenshaw melon, honeydew melon, honey balls, Persian melon, golden pershaw melon, mango melon, pineapple melon, snake melon), watermelon including hybrids and/or varieties of Citrullus spp.: Apply uniformly to the soil at rate of 320 to 420 lbs. G-2.5 per acre when plants have 4 to 5 true leaves, are well established and growing conditions are favorable for good plant growth. Crops should be cultivated or weeded prior to DACTHAL application if weeds have emerged.

Turnips (Greens and Roots: broccoli, raab (raab, raab salad), hanover salad, turnip tops (turnip greens): Apply uniformly to the soil at rate of 320 to 420 lbs. G-2.5 per acre at time of seeding.

Onions (dry bulb onions (shallots), green onions (leeks, spring onions or scallions, Japanese bunching onions, Welsh onion, green shallots, or green eschalots): Apply uniformly to soil at seeding or transplanting and on onions at layby at rate of 320 to 420 lbs. G-2.5 per acre. DACTHAL can be applied directly over transplants without injury. A layby application can be made on onions up to 14 weeks after seeding or transplanting. Should weeds emerge prior to layby, the crop should be cultivated or weeded before application. Use ¼ inch of overhead irrigation to incorporate Dacthal into the soil. Where onion emergence is expected to be slow due to cold and wet soil conditions, delay application until seed begins to germinate to reduce the risk of crop injury. Preplant incorporation is not recommended for onions.

Sweet Potatoes; arrowroot; cassava, bitter and sweet; chayote (root); dasheen (taro); turmeric; Apply uniformly to the soil at rate of 320 to 420 lbs. G-2.5 per acre at time of transplanting or layby. DACTHAL can be applied over transplants without injury. Layby application

can be made up to 6 weeks after transplanting. If weeds have emerged, the crop should be cultivated or weeded prior to making the DACTHAL application.

Tomatoes; tomatillos; eggplant; pepino; groundcherry: Apply uniformly to the soil at rate of 320 to 420 lbs. G-2.5 per acre should be confined to a period 4 to 6 weeks after transplanting. Plants should be well established and growing conditions favorable for good plant growth. DACTHAL can be applied directly over the plants without injury. If weeds have emerged, the crop should be cultivated or weeded prior to making the DACTHAL application.

Strawberries - New Plantings: Apply uniformly to the soil at rate of 360 lbs. per acre at time of transplanting. **Established Plantings:** Apply in early fall and early spring at rate of 320 to 420 lbs. per acre to control fall and early spring germinating weeds. DO NOT apply after first bloom through harvest. These applications can be made directly over plants without injury.

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 will not harm crops for which its use is recommended. However, conditions such as high salt concentration, seedling disease, cold weather, deep planting, excessive moisture or drought may injure or weaken crops normally tolerant to DACTHAL G-2.5, 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.

Storage and Disposal

DO NOT contaminate water, food or feed by storage, disposal or cleaning of equipment. Open dumping is prohibited.

Pesticide Storage: Store in a dry place.

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of at an approved waste disposal facility. DO NOT contaminate water when disposing of equipment washwaters.

Container Disposal: Completely empty bag into application equipment and dispose of empty bag in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

LIMITED WARRANTY AND DISCLAIMER

The manufacturer warrants (a) that this product conform to the chemical description on the label; (b) that this product is reasonably fit for the purposes set forth in the directions for use, subject to the inherent risks referred to herein, when it is used in accordance with such directions; and (c) that the directions, warnings, and other statements on this label are based upon responsible experts' evaluations of reasonable tests of effectiveness, of toxicity to laboratory animals and to plants, and residues on food crops, and upon reports of field experience. Tests have not been made on all varieties of food crops and plants, or in all states or under all conditions.

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