

NET CONTENTS

POUNDS

EPA Reg. No. 677-227

DIAMOND SHAMROCK

DACTHAL® G-5 HERBICIDE
(5% DACTHAL Granules)



A Selective Preemergence Herbicide for Control
of

Annual Grasses and Certain Broadleaved Weeds
in Home Flower and Vegetable Gardens and Turf

ACTIVE INGREDIENT:

Dimethyl tetrachloroterephthalate* 5.0%

INERT INGREDIENTS: 95.0%

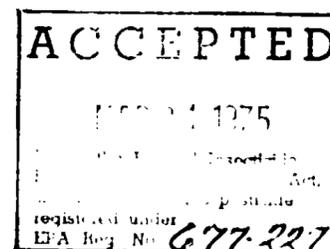
TOTAL 100.0%

*Use as preemergence herbicide patented under U.S. Pat. No. 2,923,634

18 pt. type - CAUTION: Keep out of reach of children. - 12 pt. type
See side panel for additional cautions.

DIAMOND SHAMROCK CHEMICAL COMPANY - AGRICULTURAL CHEMICALS DIVISION
Cleveland, Ohio 44114

DIAMOND SHAMROCK CORPORATION



EPA EST. NO.

READ ENTIRE LABEL CAREFULLY AND USE ONLY AS DIRECTED

GENERAL INFORMATION

DACTHAL G-5 is a 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-5 is recommended for use on TURF; HOME FLOWER GARDENS; NURSERY STOCK; STRAW-BERRIES, SEEDED: beans (dry and snap), broccoli, brussels sprouts, cabbage, cauliflower, collards, cucumbers, garlic, kale, melons, (cantaloupe, honeydew, watermelon), mustard greens, onions, potatoes (whole and cut pieces), Southern peas (blackeyed), soybeans, squash (winter and summer), turnip greens and turnips; TRANSPLANTS: broccoli, brussels sprouts, cabbage, cauliflower, eggplant, garlic, peppers, onions, sweet potatoes, tomatoes and yams.

For the control of grasses and some broadleaved weed species, such as smooth and large crabgrass, green foxtail, yellow foxtail, lovegrass, witchgrass, carpetweed, common chickweed, lambsquarters, purslane, and Florida pusley, DACTHAL G-5 is recommended at 160 to 180 pounds per acre. A slightly higher rate of application (up to 210 pounds per acre) of this product may be required for control of barnyardgrass, ground cherry, dodder, browntop panicum, goosegrass, johnsongrass from seed, redroot pigweed, and nodding spurge. A rate of 300 pounds per acre is recommended for control of annual bluegrass in turf. When DACTHAL G-5 is used at the recommended rate, up to 4 months weed control can be expected. Bermudagrass, johnsongrass established from rhizomes, nutsedge, galinsoga, wild mustard, ragweed, smartweed and velvetleaf have not been effectively controlled with DACTHAL G-5.

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 by banding. Lawn spreaders should be properly calibrated prior to use to deliver DACTHAL G-5 granules at prescribed rate. Settings may vary between spreaders because of condition and other factors.

DACTHAL G-5 can also be applied by the shaker can method. The ideal way of doing this is to measure off the area to be treated into small plots and then evenly sprinkle the prescribed quantity of DACTHAL granules over this area.

Conversion Table - Acre to Smaller Areas

<u>If Rate per Acre is</u>	<u>Amount DACTHAL G-5 to Apply</u>	
	<u>250 sq. ft.</u>	<u>1,000 sq. ft.</u>
160 pounds per acre	0 lb 15 oz	3 lb 11 oz
180 pounds per acre	1 lb 1/2 oz	4 lb 2 oz
210 pounds per acre	1 lb 3 oz	4 lb 13 oz
300 pounds per acre	1 lb 12 oz	6 lb 14 oz

If there is no rain within three or four days after DACTHAL G-5 application, sprinkler irrigation (1/2 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.

ANY APPLICATION OF DACTHAL SHOULD BE MADE PRIOR TO WEED SEED GERMINATION

DIRECTIONS FOR USE

TURF: Apply uniformly to established turfgrass at the rate of 200 pounds per acre in the early spring before crabgrass and other annual grasses and broad-leaved weed seeds germinate. Crabgrass seed germination usually coincides with the time Forsythia blossoms start to fall. One application in early spring before weed seed germination usually provides seasonal control. 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 later-germinating grasses and weeds in northern states, a late summer or early fall application before weed seed germination of 300 pounds per acre of DACTHAL G-5 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 seeds germinate in your area and make application at least two weeks prior to this date.

Early spring application of DACTHAL G-5 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.

Where some spring seeding is necessary, there should be a delay of approximately 60 days after the application of most preemergence herbicides, including DACTHAL G-5. This delay increases the survival of desirable grasses. Fall seeding of permanent grasses can follow only a single application made either in early spring up to not less than within 60 days of seeding.

DACTHAL is not recommended for use on putting-greens. DACTHAL is not recommended on bentgrasses when mowed at putting-green heights. DO NOT apply to Dichondra.

FLOWER GARDENS: Apply after establishment and conditions are favorable for good plant growth, or as a supplemental application at the rate of 180 lb G-5 per acre. Apply to the soil following establishment or setting out of flower beds. Where possible this should be done early in the spring. Delayed or secondary applications, when needed, can be made at any time provided beds have been cultivated and are free of weeds. Weed control up to three months or more may be expected following proper application. See list of ornamentals.

NURSERY STOCK OR ORNAMENTAL PLANTINGS: Apply at lining out, late fall or early spring at the rate of 180 lb G-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 should be made following proper cultivation to remove existing weeds. Where possible, this should be done early in the 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-5 is specifically recommended for weed control on the following nursery and ornamental plantings:

Abelia	Feverfew	Oak
Ageratum	Fir	Orpine
Alyssum	Forget-me-not	Pachistima
Andromeda, Jap.	Forsythia	Pachysandra
Arborvitae	Four-O'Clock	Peony
Ash	Foxglove	Petunia
Aster	Gaillardia	Pine
Azalea	Geranium	Pittosporum
Babysbreath	Gladiolus	Podocarpus
Barberry	Golddust	Poker plant
Bellflower	Goldentuft	Poplar
Birch	Gum	Privet
Bleedingheart	Hawthorn	Privet, variegated
Bloodleaf	Heath, pink	Redbud
Boxwood	Holly	Rhododendron
Bugloss	Hydrangea	Rose
Cameilia	Honeysuckle	Russian olive
Candytufts	Iris	Sage, scarlet
Chestnut	Ivy, Baltic	Snapdragon
Chrysanthemum	Ivy, Boston	Spiderwort, Va.
Cinquefoil	Ivy, English	Spirea
Coleus	Ivy, Wilson	Spruce
Columbine	Juniper	Stonecrop
Coneflower, purple	Lantana	Strawflower
Coreopsis	Larkspur, candle	Sundrops
Coralbells	Lavendercotton	Sunflower
Cosmos	Lilac	Sweet pea
Cotoneaster	Lily	Sycamore
Cottonwood	Locust	Tree peony
Crabapple	Lupine	Tulip tree
Cuphea	Magnolia	Viburnum
Cypress	Marguerite, golden	Violet
Dahlia	Marigold	Walnut
Delphinium	Mockorange	Weigelia
Deutzia	Morningglory	Willow
Dogwood	Moss, rose	Wormwood
Elaeagnus	Mother-of-thyme	Yarrow, fernleaf
Elm	Mountain Laurel	Yew
Euonymus	Mourning Bride	Zinnia
Evening primrose	Nasturtium	

DO NOT USE on the following plants:

Bugleweed	Mesembryanthemum
Button pink	Pansy
Carnation	Phlox
Geum	Sweet William
Germander	Telanthera

NOTE: See General Information to determine proper rate for your weed complex.

BROCCOLI, BRUSSELS SPROUTS, CAULIFLOWER, CABBAGE: Apply uniformly to the soil at seeding or transplanting at rate of 160 to 210 lb G-5 per acre. DACTHAL granules can be applied directly over transplants without injury. If weeds have emerged, crops should be clean cultivated or weeded prior to application.

BEANS (dry or snap), SOUTHERN PEAS (blackeyed), SOYBEANS: Apply uniformly to the soil at time of seeding at rate of 160 to 210 lb G-5 per acre.

SEEDED CUCUMBERS, SQUASH (winter and summer), MELONS (cantaloupe, watermelon, honeydew): Apply uniformly to the soil at rate of 160 to 210 lb G-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.

COLLARDS, KALE, MUSTARD GREENS, TURNIPS (greens and roots): Apply uniformly to the soil at rate of 160 to 210 lb G-5 per acre at time of seeding.

GARLIC and ONIONS: Apply uniformly to soil at seeding, or transplanting, and on onions at layby at rate of 160 to 210 lb G-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.

POTATOES (whole or cut pieces): Apply uniformly to the soil at rate of 160 to 210 lb G-5 per acre at planting, dragoff, or layby. If top of beds are to be dragged off, make application after dragoff. Layby application can be made up to 9 weeks after planting. If weeds have emerged at layby, the crop should be cultivated prior to application. The initial sprinkler irrigation should not exceed one inch. DACTHAL is not recommended for use on potatoes in California.

SWEET POTATOES and YAMS: Apply uniformly to the soil at rate of 160 to 210 lb G-5 per acre at time of transplanting or layby. DACTHAL can be applied directly 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, EGGPLANT, PEPPERS: Application uniformly to the soil at rate of 160 to 210 lb G-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 soil at rate of 180 lb per acre at time of transplanting. Established plantings -- Apply in early fall and early spring at rate of 160 to 180 lb per acre to control fall and early spring germinating weeds. DO NOT apply after first bloom. These applications can be made directly over plants without injury.

WARNINGS AND SPECIAL PRECAUTIONS: Applied according to directions and under conditions favorable to good plant growth, DACTHAL G-5 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-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.

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, seed, fertilizers, or other pesticides in order to prevent contamination.

See cautions under Turf Recommendations.

Store in dry place.

DO NOT graze on treated areas or feed plant refuse to livestock.

DO NOT reuse container. Destroy when empty.

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.

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