

DCPA Reregistration Resubmission Groundwater 7/27/92

IMPERIAL  
5% DACTHAL R

ACTIVE INGREDIENT:

DCPA (dimethyl tetrachloroterephthalate)..... 5.0%

INERT INGREDIENTS: ..... 95.0%

TOTAL ..... 100.0%

R Registered Trademark ISK Biotec Corporation

KEEP OUT OF REACH OF CHILDREN

CAUTION

SEE ADDITIONAL PRECAUTIONARY STATEMENTS BELOW

ACCEPTED  
3 SEP 1992  
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 407-416

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling.

ENVIRONMENTAL HAZARDS

Collect and incorporate granules spilled on the soil surface. Do not apply directly to water or wetlands (swamps, bogs, marshes, and potholes). Do not contaminate water by cleaning of equipment or disposal of wastes. 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. Your local agricultural agencies can provide further information on the type of soil in your area and the location of groundwater used for drinking water.

DIRECTIONS FOR USE

USE ONLY WHEN WEARING THE FOLLOWING PROTECTIVE CLOTHING:

Wear long-sleeved shirt and long-legged pants and chemical resistant gloves.

IMPORTANT! If the pesticide comes in contact with skin wash off with soap and water. Always wash hands, face, and arms with soap and water before smoking, eating, drinking, or toileting.

AFTER USE: Before removing gloves, wash them with soap and water. Take off all work clothes and shoes. Shower using soap and water. Do not reuse contaminated clothing. Clothing worn during use must be laundered separately from household articles.

STATEMENT OF PRACTICAL TREATMENT

IF IN EYES: Flush with plenty of water. Call a physician if irritation persists.

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## STORAGE AND DISPOSAL

**STORAGE:** Store in a secure area, in original container only, away from fertilizers, food, or feed.

**PESTICIDE DISPOSAL:** Securely wrap original bag in several layers of newspaper and discard in trash.

**CONTAINER DISPOSAL:** Do not reuse bag. Discard bag in trash.

## 5% DACTHAL<sup>1</sup>

A selective preemergence herbicide for control of annual grasses and certain broadleaved weeds in home flower and vegetable gardens and ornamental turf.

**READ ENTIRE LABEL CAREFULLY AND USE ONLY AS DIRECTED**

## GENERAL INFORMATION

This product is a granular formulation for use as a preemergence application for control of crabgrass and other annual grasses and certain broadleaved weeds on mineral soils. This product is recommended for use on TURF, HOME FLOWER GARDENS, NURSERY STOCK, STRAWBERRIES, 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), 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. This product 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, nodding spurge, spotted spurge and prostrate spurge. A rate of 300 pounds per acre is recommended for control of annual bluegrass in turf. When this product is used at the recommended rate up to 3 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 this product.

Application should be made to a uniform weed-free soil surface within two to three days maximum following cultivation to prevent sub-surface 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 this product granules at prescribed rate. Settings may vary between spreaders because of condition and other factors.

This product 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 this product's granules over this area.

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CONVERSION TABLE - ACRE TO SMALLER AREAS

Amount of 5% DACTHAL<sup>R</sup> to Apply

If Rate per Acre is	100 sq ft	250 sq ft	1,000 sq ft
160 pounds per acre	6 oz	15 oz	3 lb 11 oz
180 pounds per acre	6 1/2 oz	1 lb 1/3 oz	4 lb 2 oz ✓
210 pounds per acre	7 2/3 oz	1 lb 3 oz	4 lb 13 oz
300 pounds per acre	11 oz	1 lb 12 oz	6 lb 14 oz

If there is no rain within three or four days after this product is applied, 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 soil treated with this product 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 crop treated by this product.

ANY APPLICATION OF THIS PRODUCT SHOULD BE MADE PRIOR TO WEED SEED GERMINATION.

DIRECTIONS FOR USE

ORNAMENTAL 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 broadleaved 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 late-germinating grasses and weeds in northern states, a late summer or early fall application before weed seed germination of 300 pounds per acre of this product 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 this product 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 this product. 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.

THIS PRODUCT IS NOT RECOMMENDED FOR USE ON PUTTING-GREENS OR ON BENTGRASS 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. this product 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. this product 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. This product is specifically recommended for weed control on the following nursery and ornamental plantings:

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



**DO NOT USE ON THE FOLLOWING PLANTS:**

Bugleweed	Geum	Mesembranthemum	Phlox
Button pink	Germander	Pansy	Sweet William
Carnation			Telantha

**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. of this product per acre. This product's 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):** Apply uniformly to the soil at time of seeding at rate of 160 to 210 lb. of this product per acre.

**SEEDED CUCUMBERS, SQUASH (winter and summer), MELONS (cantaloupe, watermelon, honeydew):** Apply uniformly to the soil at the rate of 160 to 210 lb. of this product 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 application if weeds have emerged.

**COLLARDS, KALE, MUSTARD GREENS, TURNIPS (green and roots):** Apply uniformly to the soil at rate of 160 to 210 lb. of this product 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. of this product per acre. This product 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. of this product per acre at planting, drag-off or layby. If top of beds are to be dragged off, make application after drag-off. 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. This product 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. of this product per acre at time of transplanting or layby. This product 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 application.

**TOMATOES, EGGPLANT, PEPPERS:** Application uniformly to the soil at rate of 160 to 210 lb. of this product 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. This product can be applied directly over the plants without injury. If weeds have emerged, the crop should be cultivated or weeded prior to making application of this product.



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STRAWBERRIES: New Planting - Apply uniformly to soil at rate of 160 to 210 lb. of this product 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 through harvest. These applications can be made directly over plants without injury.

SPECIAL PRECAUTIONS: Applied according to directions and under conditions favorable to good plant growth, this product 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 this product 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: Seller warrants that the product conforms to its chemical description and is reasonably fit for the purpose stated on the label when used in accordance with the directions under normal conditions of use, but neither this warranty nor any other warranty of MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, express or implied, extends to the use of this product contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to seller, and buyer assumes the risk of any such use.

EPA Reg. No. 407-416

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EPA Est. No. 407-IA-1

Manufactured by  
IMPERIAL INC.  
Shenandoah, IA 51601

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