



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

JAN 25 1994

Gene R. Currie  
IMPERIAL INC.  
P. O. Box 98  
Shenandoah, IA 51601

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

Subject: Label Amendment Submission of 08/19/93 in Response to PR Notice 93-7  
EPA Reg. No. 407-317  
GARDEN WEEDER CONTAINS DACTHAL

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is accepted subject to the comments reflected on the enclosed sheet. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

**WHAT THIS ACCEPTANCE MEANS:**

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the Worker Protection Standard (WPS) labeling requirements of 40 CFR part 156, subpart K, described in PR Notices 93-7 and 93-11. Any other labeling changes submitted in connection with this amendment application but not directly related to compliance with the WPS have not been reviewed or accepted by the Agency. If you wish to make such changes, you must submit a separate amendment application proposing them. If your product is currently suspended, the acceptance of this labeling amendment does not affect the suspension in any way.

**WHAT YOU NEED TO DO NEXT:**

By the next label printing make all the specified changes to your labeling. Send to EPA one (1) copy of the final printed labeling:

- BEFORE selling or distributing any product bearing the final printed labeling
- AND
- WITHIN one year from date of this acceptance.



Recycled/Recyclable  
Printed with SoyCanada ink on paper that  
contains at least 50% recycled fiber


Submit the final printed labeling via the U.S. Postal Service to:

Document Processing Desk (FIN-LABEL)  
Office of Pesticide Programs (7505C)  
U.S. Environmental Protection Agency  
401 M Street, SW  
Washington, D.C. 20460-0001

Hand or courier deliveries of final printed labeling may be made to:

Document Processing Desk (FIN-LABEL)  
Office of Pesticide Programs  
Room 266A, Crystal Mall 2  
1921 Jefferson Davis Highway  
Arlington, VA 22202

Sincerely,



Jim Tompkins, Deputy Chief  
Registration Support Branch  
Registration Division (7505W)

Attachment

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
Office of Pesticide Programs  
Registration Division

Gene R. Currie  
IMPERIAL INC  
BOX 98  
SHENANDOAH IA 51601

Subject: Label Amendment Submission of 08/19/93  
to Comply with WPS Labeling Requirements  
EPA Reg Nr. 407-317  
GARDEN WEEDER CONTAINS DACTHAL

The following specific comments pertain to your  
WPS labeling submission concerning the product  
cited above:

Remove the statement "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." from its current position within  
the Agricultural Use Box and place it above the Agricultural  
Use Box.

There is a typographical error(s) in the Agricultural Use  
Requirements box.

**IMPERIAL  
GARDEN WEEDER  
CONTAINS DACTHAL R**

**A SELECTIVE PREEMERGENCE HERBICIDE FOR CONTROL OF ANNUAL  
GRASSES AND CERTAIN BROADLEAVED WEEDS IN FLOWER AND  
VEGETABLE GARDENS, TURF AND AGRONOMIC CROPS**

Active Ingredient:		
DCPA (dimethyl tetrachloroterephthalate)	.....	5%
Inert Ingredients:	.....	95%
Total	.....	100%

R Registered Trademark ISK Biotec Corporation

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

**STATEMENT OF PRACTICAL TREATMENT**

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

EPA Reg. No. 407-317  
EPA Est. 407-IA-1

ACCEPTED  
with COMMENTS  
in EPA Letter Dated I-92

**NET CONTENTS  
Manufactured by  
IMPERIAL INC.  
Shenandoah, IA 51601**

**JAN 25 1994**  
Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.  
407-317

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

Causes moderate eye irritation. Avoid contact with eyes or clothing.  
Personal Protective Equipment:

- Applicators and other handlers must wear:
- Long-sleeved shirt and long pants.
  - Waterproof gloves.
  - Shoes plus socks.

Follow manufacturers instructions for cleaning or maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

**USER SAFETY RECOMMENDATIONS**

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

**ENVIRONMENTAL HAZARDS**

Collect and incorporate granules spilled on the soil surface. For terrestrial uses, do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. 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 there 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 locations of groundwater used for drinking water.

**DIRECTIONS FOR USE**

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

**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 apply only to uses of this product that are covered by the Worker Protection Standard.

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.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

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.
- Waterproof gloves.
- Shoes plus socks.

**STORAGE AND DISPOSAL**

**STORAGE:** Store in original container, in a cool, dry, secure area, away from fertilizer, food, or feed. Keep container closed.

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

**CONTAINER DISPOSAL:** Do not reuse empty container. Wrap container and put in trash.

**RECOMMENDATIONS**

**GENERAL INFORMATION:** Garden Weeder 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. Garden Weeder is recommended for use on TURF, HOME FLOWER GARDENS, NURSERY STOCK, STRAWBERRIES, VEGETABLES.

**DIRECTIONS:** For the control of grasses and some broadleaved weed species such as smooth and hairy crabgrass, green foxtail, yellow foxtail, lovegrass, witchgrass, carpetweed, common chickweed, lambsquarters, purslane, and Florida pusley, GARDEN WEEDER is recommended at the rate of 160 - 180 pounds per acre, 4 pounds per 1,000 square feet, or 1 pound (approximately 1 quart) for 250 square feet. A slightly higher rate of application (up to 210 pounds per acre of this product) may be required for control of barnyardgrass, annual bluegrass, ground cherry, dodder, browntop, panicum, goosegrass, Johnsongrass from seed, redroot pigweed, and nodding spurge.

When used at the recommended rate, up to 4 months weed control can be expected. Bermudagrass, Johnsongrass established from rhizomes, nutgrass galinsoga, wild mustard, ragweed, and velvetleaf have not been effectively controlled.

Spreader should be checked to determine whether they are applying the correct amount. The application should be made to a uniform weed-free surface within two to three days maximum following cultivation to prevent sub-surface germinating weeds from becoming established before the GARDEN WEEDER is activated. Disturbing the soil surface following application will reduce effectiveness. Rates of application can be reduced by banding.

If there is no effective rain within 3 to 4 days after application, sprinkler irrigation should be used for best results. GARDEN WEEDER can also be applied by shaker method. The ideal way of doing this is to measure off the area to be treated into small plots and then evenly spread the prescribed quantity of granules over the area; 1 pound (approximately 1 quart) treats 250 square feet (area 25 feet by 10 feet), 1 cupful treats 50 square feet. Any application should be made prior to weed seed germination. **TURF:** Apply uniformly to established turfgrass at the rate of 200 pounds per acre in early spring before crabgrass and other annual grasses and broadleaved weeds germinate. This usually coincides with the time forsythia blossoms start to fall. One application, applied before weed germination in early spring usually provides season long control. Where spring seeding is necessary, there should be a delay of approximately 60 days after the application. If reseeding is done before 60 days after application, the amount of grass sown should be increased by 50% to insure thrifty stands.

Early spring application may be applied to newly seeded turf after they exhibited greening of newly-sprouting turf-grass. Early spring application allows fall sowing of permanent grass. To control annual bluegrass and other erratic or late germinating grasses and weeds, a late summer or early fall application of 300 pounds per acre should supplement the early spring application.

The use of GARDEN WEEDER on bentgrass greens should be restricted to portions of greens infested with crabgrass and bentgreens which are known to be tolerant to GARDEN WEEDER. Application to Cohansy or Toronto Bents is not recommended. At the recommended rate of application, GARDEN WEEDER does not show herbicide injury or discoloration to established common lawn grasses. No more than the recommended rate should be used.

**FLOWER GARDENS:** Apply after establishment, or as supplemental application at the rate of 180 pounds per acre (4 lbs. per 1,000 square feet). 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 can be made at any time provided beds have been cultivated and are free of weeds. Weed control up to four months or more may be expected following proper application.

**NURSERY STOCK OR ORNAMENTAL PLANTINGS:** Apply at lining out, late fall, early spring at the rate of 180 lbs. per acre (4 lbs. per 1,000 square feet). 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 application may prove beneficial for control of fall-germinating weeds, if made following cultivation. Weed control up to four months or more may be expected following proper application.

**STRAWBERRIES (new plantings):** Apply at planting at the rate of 180 lbs. per acre. (Established plantings): Apply in fall and early spring at the rate of 160 - 180 lbs. per acre (4 lbs. per 1,000 square feet). Apply uniformly to the soil. For new beds, apply 180 pounds at transplanting. Application to established plantings should be made in fall and early spring. Applications of 160 - 180 pounds per acre may be applied to control late summer or early fall germinating weeds. DO NOT apply after first bloom. These applications can be made directly over plants without injury.

**BROCCOLI, BRUSSELS SPROUTS, CAULIFLOWER AND CABBAGE:** Apply at seeding or transplanting at the rate of 160 - 180 pounds per acre (4 lbs. per 1,000 square feet). Apply uniformly to the soil. Granules can be applied directly over transplants without injury. If weeds have emerged, crop should be clean cultivated or weeded prior to application.

**BEANS (dry or snap) SOUTHERN PEAS (blackeyed):** Apply at seeding at the rate of 160 - 180 lbs. per acre (4 lbs. per 1,000 square feet). Apply uniformly to the soil at time of seeding.

**CUCUMBERS, SQUASH (winter and summer) MELONS (cantaloupe, watermelon, honeydew).** Apply 4 - 6 weeks after seeding at the rate of 160 - 180 lbs. per acre (4 lbs. per 1,000 square feet). Apply uniformly to the soil 4 to 6 weeks after seeding. Crops should be cultivated or weeded prior to application if weeds have emerged.

**COLLARDS, KALE, MUSTARD GREENS, TURNIPS (greens and roots):** Apply at seeding at the rate of 160 - 180 lbs. per acre (4 lbs. per 1,000 square feet). Apply uniformly to the soil at time of seeding.

**GARLIC AND ONIONS:** Apply at seeding or transplanting or at layby on onions at the rate of 160 - 180 lbs. per acre (4 lbs. per 1,000 square feet). Apply uniformly to the soil. Granules can be applied directly over transplants without injury; layby applications can be made on onions up to 14 weeks after planting or transplanting. Should weeds emerge prior to layby, onions should be cultivated or weeded prior to application.

**LETTUCE (leaf):** Apply 1 - 3 weeks after emergence at the rate of 160 - 180 lbs. per acre (4 lbs. per 1,000 square feet). Apply one application only, uniformly to the soil but not later than 3 weeks after emergence.

**LETTUCE (head):** Apply 1 - 6 weeks after seeding at the rate of 160 - 180 lbs. per acre (4 lbs. per 1,000 square feet). Apply one application only, uniformly to the soil, 1 - 6 weeks after seeding.

**POTATOES** (whole or cut pieces): Apply at planting, dragoff, or layby at the rate of 160 - 180 lbs. per acre (4 lbs. per 1,000 square feet). Apply uniformly to the soil at planting, or if the top of the beds are to be dragged off, GARDEN WEEDER should be applied after dragoff. Layby application can be made up to 9 weeks after planting. If weeds have emerged at layby, the crop should be weeded or cultivated prior to application.

**SWEET POTATOES AND YAMS:** Apply at transplanting, or layby at the rate of 160 - 180 lbs. per acre (4 lbs. per 1,000 square feet). Apply uniformly to the soil at transplanting. GARDEN WEEDER can be applied directly over transplants without injury. Layby applications 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:** Apply 4 - 6 weeks after transplanting at the rate of 160 - 180 lbs. per acre (4 lbs. per 1,000 square feet). Application uniformly to the soil should be confined to a period of 4 to 6 weeks after transplanting. GARDEN WEEDER can be applied directly over the transplants without injury. If weeds have emerged, the crop should be cultivated or weeded prior to making the application.

**EGGPLANT AND PEPPERS:** Apply at transplanting or layby at the rate of 160 - 180 lbs. per acre, (4 lbs. per 1,000 square feet). Apply uniformly to the soil at transplanting. GARDEN WEEDER can be applied directly over transplants without injury. Layby application can be made up to 6 weeks after planting. If weeds are present, the crop should be weeded or cultivated prior to making the layby application.

GARDEN WEEDER is specifically recommended for weed control with the following: Abelia, Arborvitae, Ash, Azalea, Barberry, Boxwood, Birch, Camellia, Chestnut, Cotoneaster, Cottonwood, Crap apple, Cypress, Deutzia, Dogwood, Elaeagnus, Elm, Euonymus, Fir, Forsythia, Gum, Hawthorn, Holly, Hydrangea, Jap. andromeda, Juniper, Lantana, Lilac, Locust, Magnolia, Maple, Mock orange, Mountain laurel, Oak, Pachistima, Pine, Pittosporum, Podocarpus, Poplar, Privet, Redbud, Rhododendron, Rose, Russian olive, Spirea, Spruce, Sycamore, Tree peony, Tulip tree, Variegated privet, Viburnum, Walnut, Weigela, Willow, Yew, Baltic ivy, Boston ivy, English ivy, Honeysuckle, Pachysandra, Wilson ivy, Ageratum, Alyssum, Aster, Babysbreath, Candytufts, Cinquefoil, Chrysanthemum, Columbine, coleus, Coreopsis, coral bells, Cosmos, Cuphea, Dahlia, Delphinium, Evening primrose, Fernleaf yarrow, Feverfew, Forget-me-not, Four-O'clock, Foxglove, Gaillardia, Geranium, Gladiolus, Gold dust, Gold. marguerite, Golden tuft, Iris, Lavender-cotton, Lily, Lupine, Marigold, Morningglory, Mother-of-Thyme, Mourning bride, Mourning pinks, Nasturtium, Orpine, Peonies, Patunia, Pink heath, Poker plant, Purple coneflower, Rose moss, Salvia, Scarlet Sage, Snapdragon, Stone Crop, Strawflower, Sundrops, Sunflower, Sweetpea, Verbena, Virg. Spiderwort, Violet, Wormwood, Zinnia.

DO NOT USE on the following plants: Bugle weed, Button pink, Carnation, Geum, Germander, Mesembryanthemum, Pansy, Phlox, Sweet William, Telanthera.

**NOTICE**

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 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.