



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

APR 28 1994

ELIZABETH D. OWENS
ISK BIOTECH CORPORATION
5966 HEISLEY ROAD
P.O. BOX 8000
MENTOR, OHIO 44061-8000

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Subject: Label Amendment Submission of 09/14/93 In Response to PR Notice 93-7
EPA REG. NO. 50534-10
DACTHAL FLOWABLE HERBICIDE

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. 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:

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 Soy/Candia Ink on paper that
contains at least 50% recycled fiber

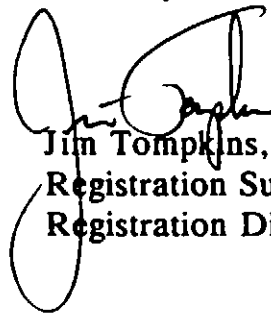
Submit the final printed labeling via the U.S. Postal Service to:

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

NO PRODUCT SPECIFIC COMMENTS

4 7 16

Dacthal® Flowable Insecticide

Turf Care®

A Selective Preemergence Herbicide for Professional Lawn Care Use Only.

Contains 6.0 pounds Dacthal per gallon.

Active Ingredient:	By Wt.
DCPA (dimethyl tetrachloroterephthalate)	54.9%
Inert Ingredients:	45.1%
Total:	100.0%

Keep Out of Reach of Children

CAUTION

See side panel for additional precautionary statements

ISK Biotech Corporation

5966 Heisley Road
P.O. Box 8000
Mentor, Ohio 44061-8000

EPA Reg. No. 50534-10
EPA Est. No. 37429-GA-1
3218-4060-8034-9211

ACCEPTED
with COMMENTS
In EPA Letter Dated

APR 28 1994

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

50534-10

Precautionary Statements**Hazards to Humans and Domestic Animals****Caution**

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

Statement of Practical Treatment:

If in Eyes: Flush with plenty of water. Call a physician if irritation persists.

If Swallowed: Do not induce vomiting. If vomiting occurs spontaneously, keep airway clear. Never give anything by mouth to an unconscious person. Seek medical attention.

If on Skin: Wash thoroughly with soap and water.

Personal Protective Equipment (PPE):

Applicators and other handlers must wear:

- * Long-sleeved shirt and long pants
- * Waterproof gloves
- * Shoes plus 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.

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the 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.
- * 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

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 cleaning of equipment or disposal of wastes.

Dacthal Flowable Herbicide**A Selective Preemergence Herbicide for Professional Lawn Care Use Only.**

Read entire label carefully before and use only as directed.

General Information

Dacthal Flowable Herbicide is for use as a preemergence application for control of crabgrass and other annual grasses and certain broadleaf weeds on mineral soils in ornamental turf and nursery stock and as a postemergence application for control of creeping speedwell (*Veronica filiformis*). **Dacthal Flowable Herbicide** is compatible with liquid nitrogen fertilizers commonly used by the lawn care industry.

The following weeds are grouped according to their susceptibility to **Dacthal Flowable Herbicide** applied as a preemergence treatment:

Susceptible (controlled at recommended rates): common lambsquarters, smooth crabgrass, large crabgrass, lovegrass, carpetweed, witchgrass, purslane, Florida pusley, yellow foxtail, green foxtail, common chickweed.

Moderately Susceptible (Maximum rates required for effective control): Redroot pigweed, sandbur, dodder, barnyardgrass, goosegrass, browntop panicum, ground-cherry, annual bluegrass, johnsongrass (from seed), nodding spurge, spotted spurge and prostrate spurge.

Tolerant: Velvetleaf, common ragweed, johnsongrass established from rhizomes, mustards, jimsonweed, galinsoga, smartweed, nutsedge.

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 COUNTY, LONG ISLAND, NEW YORK.

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.

Do not apply when wind speed favors drift beyond the area intended for treatment.

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.

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

~~Protective Clothing Required: Wear a long-sleeved shirt, long-legged pants, chemical resistant gloves, shoes and socks when handling (mixing, loading or applying) pesticides or when cleaning and repairing equipment used during mixing, loading or application of pesticides.~~

~~In case of contact with skin, wash thoroughly with soap and water. Always wash hands, face and arms with soap and water after using pesticides before smoking, eating, drinking or toileting. Shower after work and do not reuse clothing worn during handling (mixing, loading or applying) pesticides or when cleaning and repairing equipment used during mixing, loading or application of pesticides until clothing has been thoroughly laundered. Clothing worn during work must be laundered separately from household articles before reuse.~~

~~Reentry: For commercial vegetable production. Do not enter treated areas for 24 hours after application unless wearing long-sleeved shirt and long pants.~~

Preparation and Application of the Spray: Dacthal Flowable Herbicide 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. In order to insure uniform suspension in the spray tank, **Dacthal Flowable Herbicide** should be added as the spray tank is filling. Adequate agitation should be maintained during filling and spraying to keep material in uniform suspension. Use nozzles suitable for applying wettable powder so that the spray can be uniformly distributed over turf or 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-fourth inch of water either as rain or irrigation is necessary to activate **Dacthal Flowable Herbicide**, 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 for weed seed germination, water must be applied immediately.

Ornamental Turf: Application at the rate of 7 qts. of **Dacthal Flowable Herbicide** in 40 to 100 gallons of water per acre (1 pt. in 3 to 7 gals/3,000 sq. ft.) gives excellent control of crabgrass and other weeds as listed on this label. One application applied in early spring before weed seed germination usually provides season long control. Crabgrass seed germination usually coincides with the time when Forsythia blossoms start to fall. 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 10 quarts of **Dacthal Flowable Herbicide** in 40 to 100 gallons of water per acre (1-1/2 pts. in 3 to 7 gals/3,000 sq. ft.) should supplement the early spring application. Earlier applications are required in Southern States. Consult agricultural experiment station or extension service weed specialist for date *Poa annua* seed germinates in your area and make application at least two weeks prior to this date.

Early spring application of **Dacthal Flowable Herbicide** 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. Such **Dacthal Flowable Herbicide** application, gives control of crabgrass without injury to newly emerged turf grasses. Fall sowing of permanent grasses can follow early spring applications of **Dacthal Flowable Herbicide**. Where some spring seeding is necessary, there should be a delay of approximately 60 days after the application of **Dacthal**. This delay increases the survival of desirable grasses.

Dacthal Flowable Herbicide is not recommended for use on putting greens or on bentgrasses mowed at putting green height.

Do not feed treated foliage to livestock or graze treated areas.

For control of creeping speedwell (*Veronica filiformis*), apply 2 gallons of **Dacthal Flowable Herbicide** in 40 to 100 gallons of water per acre as a postemergence spray when creeping speedwell is growing vigorously. Spring or early fall applications are usually suitable, provided temperatures are between 65° and 90°F and there is ample soil moisture. Thorough coverage is essential. Delayed control of creeping speedwell is to be expected and will be manifested first by a gradual loss of color and vigor.

Ornamentals: **Dacthal Flowable Herbicide** can be applied to a wide range of nursery stock at the rate of 7 to 8 quarts in 40 to 100 gallons of water per acre of area treated (1 pint in 3 to 7 gallons of water/3000 sq. ft.)

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 all germinating weeds, if made following cultivation. Weed control up to three months or more may be expected following proper application.

Dacthal Flowable Herbicide is specifically recommended for weed control with the following:

Application and Calibration Techniques for Sprinkler Irrigation

Apply **Dacthal Flowable Herbicide** only through center pivot, motorized lateral move, solid set or portable (side roll, end tow or hand move) irrigation system(s). Do not apply this product through any other type of irrigation system.

Crop injury or lack of effectiveness can result from non-uniform distribution of treated water.

If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.

Do not apply this product through irrigation systems connected to a public water system. "Public water system" means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days per year.

A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

Always inject DACTHAL FLOWABLE HERBICIDE into irrigation water after it discharges from the irrigation pump and after it passes through the check valve. Never inject pesticides into the intake line of the suction side of the pump.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Do not apply when wind speed favors drift beyond the area intended for treatment.

Spray mixture in the chemical supply tank must be agitated at all times, otherwise settling and uneven application may occur.

Dacthal Flowable Herbicide may be used through two basic types of sprayer irrigation systems as outlined in Sections A and B below. Determine which type of system is in place, then refer to the appropriate directions provided for each type.

A. Center Pivot and Motorized Lateral Move Irrigation Equipment

displacement injection pump, of either diaphragm or piston type, constructed of materials that are compatible with pesticides and capable of injection at pressures approximately 2-3 For injection of pesticides, these continuously moving systems must use a positive times those encountered within the irrigation water line. Venturi applicator units cannot be used on these systems.

Fill chemical supply tank of injection equipment with water. Operate system for one complete revolution or run across the field, measuring time required, amount of water injected, and acreage covered. Thoroughly mix recommended amount of **Dacthal Flowable Herbicide** for acreage to be covered into same amount of water used during calibration and inject into system continuously for one revolution or run. Mixture in the chemical supply tank must be continuously agitated during the injection run. Shut off injection equipment after one revolution or run, but continue to operate irrigation system until **Dacthal Flowable Herbicide** has been cleared from last sprinkler head.

B. Solid Set and Portable (Side Roll, End Tow or Hand Move) Irrigation Equipment

Determine acreage covered by sprinkler. Fill tank of injection equipment with water and adjust flow to use contents over a thirty to forty-five minute period. Mix desired amount of **Dacthal Flowable Herbicide** for acreage to be covered into quantity of water used during calibration and operate entire system at normal pressures recommended by the manufacturer of injection equipment used for amount of time established during calibration. **Dacthal Flowable Herbicide** can be injected at the beginning or end of the irrigation cycle or as a separate application. Stop injection equipment after treatment is completed and continue to operate irrigation system until **Dacthal Flowable Herbicide** has been cleared from last sprinkler head.

Storage and Disposal

Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited.

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: Do not reuse empty container. Triple rinse (or equivalent) and offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

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.** 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.

DACTHAL and TURF CARE are registered trademarks of ISK Biotech Corporation.

ISK Biotech Corporation
5966 Heisley Road
P.O. Box 8000
Mentor, Ohio 44061-8000

EPA Reg. No. 50534-10
EPA Est. No. 37429-GA-1

Ornamentals: Dacthal Flowable Herbicide can be applied to a wide range of nursery stock at the rate of 7 to 8 quarts in 40 to 100 gallons of water per acre of area treated (1 pint in 3 to 7 gallons of water/3000 sq. ft.)

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 all germinating weeds, if made following cultivation. Weed control up to three months or more may be expected following proper application.

Dacthal Flowable Herbicide is specifically recommended for weed control with the following:

- | | | |
|-----------------|--------------------|------------------|
| Abelia | Chestnut | Dogwood |
| Ageratum | Chrysanthemum | Elaeagnus |
| Alyssum | Cinquefoil | Elm |
| Andromeda, Jap. | Coleus | Euonymus |
| Arborvitae | Columbine | Evening primrose |
| Ash | Coneflower, purple | Feverfew |
| Aster | Coreopsis | Fir |
| Azalea | Coratbells | Forget-me-not |
| Babysbreath | Cosmos | Forsythia |
| Barberry | Cotoneaster | Four-O'Clock |
| Bellflower | Cottonwood | Foxglove |
| Birch | Crabapple | Gaillardia |
| Bleedingheart | Cuphea | Geranium |
| Bloodleaf | Cypress | Gladiolus |
| Boxwood | Dahha | Goddust |
| Bugloss | Delphinium | Goldentuft |
| Camellia | Deutzia | Gum |
| Candytuft | | Hawthorn |

- | | | |
|--------------------|--------------------|------------------|
| Heath, Pink | Morningglory | Sage, scarlet |
| Holly | Moss, rose | Snapdragon |
| Hydrangea | Mother-of-Thyme | Spiderwort, VA |
| Honeysuckle | Mountain Laurel | Spiraea |
| Iris | Mourning Bride | Spruce |
| Ivy, Baltic | Nasturtium | Stonecrop |
| Ivy, Boston | Oak | Strawflower |
| Ivy, English | Orpine | Sundrops |
| Ivy, Wilson | Pachistima | Sunflower |
| Juniper | Pachysandra | Sweet pea |
| Lantana | Peony | Sycamore |
| Larkspur, candle | Petunia | Tree peony |
| Lavender/cotton | Pine | Tulip tree |
| Lilac | Pittosporum | Viburnum |
| Lily | Podocarpus | Violet, African |
| Locust | Poker plant | Walnut |
| Lupine | Poplar | Weigela |
| Magnolia | Privet | Willow |
| Maple | Privet, variegated | Wormwood |
| Marguerite, golden | Redbud | Yarrow, fernleaf |
| Marigold | Rhododendron | Yew |
| Mockorange | Rose | Zinnia |
| | Russian olive | |

Do not use on the following plants:

- | | | |
|-------------|------------------|---------------|
| Bugleweed | Germander | Phlox |
| Button pink | Mesembryanthemum | Sweet William |
| Camation | Pansy | Telanthera |
| Geum | | |

Amount of DACTHAL FLOWABLE HERBICIDE to Use in Treating Small Areas

Area to be Treated*	Recommended rate of DACTHAL FLOWABLE HERBICIDE/A	Amount of DACTHAL FLOWABLE HERBICIDE to Apply
1000 sq. ft. (From 1 to 2 gallons of water should be used to spray 1000 sq. ft.)	6 to 7 qts. (heavy soil)	5 oz.
	4 to 5 qts. (medium soil)	4 oz.
	3 qts. (sandy soil)	4 oz.
250 sq. ft. (From 1/4 to 1/2 gallon of water should be used to spray 250 sq. ft.)	6 to 7 qts. (heavy soil)	1-1/4 oz.
	4 to 5 qts. (medium soil)	1 oz.
	3 qts. (sandy soil)	1 oz.

NOTE: In treating small areas it is important to use care in measuring out required quantity for area to be treated, properly mixing it in water and keeping it adequately agitated during application.

*Other size areas to be treated can be calculated from the above table. For example:
 To treat 5000 sq. ft. at the 7 qts./acre rate, use 1-1/2 pts. in 5 to 10 gallons of water.
 To treat 500 sq. ft. at the 7 qts./acre rate, use 2-1/2 oz. in 1/2 to 1 gallon of water.

BEST AVAILABLE COPY

For Use on Turf

	To Control	When to Apply	Rate of Dacthal Flowable Herbicide	Remarks
Established turf	Crabgrass	Early spring, before crabgrass and other spring annual weed seeds germinate.	7 qts./acre or 1 pt. in 3 to 7 gal./3000 sq. ft.	Apply when Forsythia blossoms. A second application at half the recommended rate may be made 2 months after the first application if necessary.
	Annual bluegrass (<i>Poa annua</i>)	Late summer or early fall in Northern States before weed seed germination. Consult agricultural experiment station or extension service weed specialist for date <i>Poa annua</i> germinates in your area and make application at least two weeks prior to this date.	10 qts./acre or 1 1/2 pts. in 3 to 7 gals./3000 sq. ft.	Should be used following an early spring application for crabgrass control.
	Creeping speedwell (<i>Veronica filiformis</i>)	As a postemergence spray in spring or early fall when creeping speedwell is growing vigorously, there is ample soil moisture and temperature is between 65° and 90°F.	2 gals./acre or 18 fluid ounces in 3-7 gals./3000 sq. ft.	Apply spray to obtain thorough coverage of foliage. Delayed control of creeping speedwell is to be expected and will be noticed first by a gradual loss of color and vigor.
	Nodding, Spotted or Prostrate spurges (<i>Euphorbia maculata</i> , <i>E. supina</i>)	Mid-April or before seed germination of annual weeds. Repeat application in 6 to 8 weeks.	7 to 8 qts./acre or 15 to 18 ozs. in 3 to 7 gals./3000 sq. ft.	Apply first application before seed germination. Repeat application at the same rate 6 to 8 weeks later. In addition to control of spotted spurge or prostrate spurge, crabgrass control is also obtained.
Newly-seeded turf	Crabgrass	After new turfgrass seedlings have exhibited a greening of the newly sprouted grass (about 1 to 2 inches high).	7 qts./acre or 1 pt. in 3 to 7 gals./3000 sq. ft.	Allows crabgrass control without injury to the new turf.

CAUTION: After Dacthal Flowable Herbicide treatment, wait approximately 60 days before any new seeding is undertaken.

Do not use on Dichondra.

See recommendations on bentgrass before using on this species.

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Net Contents: 2.5 Gallons/9.5 Liters

ISK BIOTECH TM

Dacthal® Flowable Herbicide

Turf Care®

A Selective Preemergence Herbicide for Professional Lawncare Use Only.

Contains 6.0 pounds Dacthal per gallon

	By Wt.
Active Ingredient: DCPA (dimethyl tetrachloroterephthalate)	54.9%
Inert Ingredients:	<u>45.1%</u>
Total:	100.0%

Keep Out of Reach of Children

Caution: See side panel for additional precautionary statements

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3218-4060-9074-9211

ACCEPTED
with COMMENTS
in EPA Letter Dated

APR 28 1991

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

50534-10

BEST AVAILABLE COPY

Precautionary Statements

Hazards to Humans and Domestic Animals

Caution

WARNING: Manufactured with Carbon Tetrachloride, a substance which harms public health and environment by destroying ozone in the upper atmosphere.

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

Statement of Practical Treatment:

If in Eyes: Flush with plenty of water. Call a physician if irritation persists.

If Swallowed: Do not induce vomiting. If vomiting occurs spontaneously, keep airway clear. Never give anything by mouth to an unconscious person. Seek medical attention.

If on Skin: Wash thoroughly with soap and water.

Personal Protective Equipment (PPE):

Applicators and other handlers must wear:

- * Long-sleeved shirt and long pants
- * Waterproof gloves
- * Shoes plus 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.

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the 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.
- * 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

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 when disposing of equipment wastewater.

Storage and Disposal

Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited.

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: Do not reuse empty container. Triple rinse (or equivalent) and offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

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. 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.

Dacthal Flowable Herbicide

A Selective Preemergence Herbicide for Professional Lawn Care Use Only.

Read entire label carefully before and use only as directed.

General Information

Dacthal Flowable Herbicide is for use as a preemergence application for control of crabgrass and other annual grasses and certain broadleaf weeds on mineral soils in ornamental turf and nursery stock and as a postemergence application for control of creeping speedwell (*Veronica filiformis*). **Dacthal Flowable Herbicide** is compatible with liquid nitrogen fertilizers commonly used by the lawn care industry.

The following weeds are grouped according to their susceptibility to **Dacthal Flowable Herbicide** applied as a preemergence treatment:

Susceptible (controlled at recommended rates): common lambsquarters, smooth crabgrass, large crabgrass, lovegrass, carpetweed, witchgrass, purslane, Florida pusley, yellow foxtail, green foxtail, common chickweed.

Moderately Susceptible (Maximum rates required for effective control): Redroot pigweed, sandbur, dodder, barnyardgrass, goosegrass, browntop panicum, groundcherry, annual bluegrass, johnsongrass (from seed), nodding spurge, spotted spurge and prostrate spurge.

Tolerant: Velvetleaf, common ragweed, johnsongrass established from rhizomes, mustards, jimsonweed, galinsoga, smartweed, nutsedge.

Tolerant: Velvetleaf, common ragweed, johnsongrass established from rhizomes, mustards, jimsonweed, galinsoga, smartweed, nutsedge.

Directions for Use

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to supplemental labeling under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

SEE ENCLOSED FOLDER FOR DIRECTIONS FOR USE.

PLACE INSERT POUCH HERE.