Ree, # 228-97

PH1-23



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

NOV 18 1994

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

RUSSELL F. SAWYER RIVERDALE CHEMICAL CO. 425 WEST 194TH STREET GLENWOOD, IL. 60425

Subject: Label Amendment Submission of 6/22/94 in Response to PR Notice 93-7 EPA Reg. No. 228-99 RIVERDALE 10% DACTHAL GRANULES 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.



Page 2

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, Um Fompkins, Deputy Chief Registration Support Branch Registration Division (7505W)

10

Attachment

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs Registration Division

Russell F Sawyer RIVERDALE CHEMICAL CO 425 WEST 194TH ST. GLENWOOD IL 60425

Comment for: EPA Reg Nr.228-99 RIVERDALE 10% DACTHAL GRANULES

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

The following statement on your proposed label is not required for this product: "Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate." You may delete it or leave it on the label.

The glove requirement for "applicators and other handlers" in the "Personal Protective Equipment" section on your proposed labeling is missing or incorrect. Remove the incorrect requirement (if any) and add "Waterproof gloves". The exact location is shown in Sections A and B on Part 1 of the Product Worksheet in Supplment Three-A to PR Notice 93-7.

The glove requirement for early entry in the Agricultural Use Requirements box on your proposed labeling is missing or incorrect. Remove the incorrect requirement (if any) and add "Waterproof gloves". The exact location is shown in Sections F and G on Part 2 of the Product Worksheet in Supplement Three-A to PR Notice 93-7.

Delete the crossed-out statements on your proposed label. They are redundant statements or phrases.

RIVERDALE

10% DACTHAL GRANULES

Pre-emergent herbicide containing granular Dacthal[®] to prevent annual grasses and proadleaf weeds in flower gardens, around ornamentals, vegetable gardens and turf (ornamental, golf course fairway, and athletic field).

KEEP OUT OF REACH OF CHILDREN

CAUTION-CAUCION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

See side panel for other Precautionary Statements

EPA REG. NO. 228-99

EPA EST. NO. 228-IL-1

NET WEIGHT LBS.

MANUFACTURED BY RIVERDALE CHEMICAL COMPANY GLENWOOD, ILLINOIS 60425-1584

> ACCEPTED with COMMENTS in EPA Letter Dated

NUV 18 1994 Under the Federal Insecticide, Fundleide, and Rudensleide Act as attended, for the pesticide registeret under HPA Bes. No. 228-99

Note: Spanish Language is optional.

4710

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION-CAUCION

Causes moderate eye irritation. Avoid contact with eyes or clothing.

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

IMFORTANT! If pesticide comes in contact with skin, wash off with soap and water.

NON-WPS TURF USES: Applicators and other handlers who handle this pesticide for any use NOT covered by the Worker Protection Standard (40 CFR Part 170)-in general, only agricultural plant uses are covered by the WPS-must wear: long pants, long-sleeved shirt, and chemical resistant gloves DURING MIXING/LOADING AND APPLYING, REPAIR AND CLEANING OR MIXING, LOADING, AND APPLICATION EQUIPMENT, DISPOSAL OF THE PESTICIDE, AND EARLY REENTRY INTO TREATED AREAS.

AFTER WORK: 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 work must be laundered separately from household articles. Clothing that becomes heavily contaminated or drenched must be destroyed according to State and local regulations. HEAVILY CONTAMINATED OR DRENCHED CLOTHING CANNOT BE ADEQUATELY DECONTAMINATED.

WPS USES: Personal Protective Equipment: Applicators and other handlers who handle this pesticide for any use covered by the Worker Protection Standard (40 CFR Part 170) - in general, agricultural plant uses are covered-must wear: long-sleeved shirt and long pants; chemical-resistant gloves and shoes plus socks. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturers instructions for cleaning/maintaining Personal Protective Equipment (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, drinking, chewing gum, using tobacco or using tobacco or using the toilet. Remove clothing immediately if pesticide get 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. 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 when 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 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

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. READ ENTIRE LABEL BEFORE USING THIS FRODUCT. USE STRICTLY IN ACCORDANCE WITH LABEL PRECAUTIONARY STATEMENTS AND DIRECTIONS.

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.

AGRICULTORAL 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 24 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, chemical-resistant gloves 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 areas for 24 hours after application unless wearing long-sleeved shirt and long pants.

GENERAL INFORMATION

Riverdale 10% Dacthal Granules is a granular selective herbicide formulation for use as a pre-emergent application for control of crabgrass and other annual grasses and for certain broadleaf weeds in flower and vegetable gardens and ornamental turf.

10% Dacthal Granules is recommended for use on Turf; Home Flower Gardens; Nursery Stock; Strawberries; Seeded Crops: beans (dry and snap), broccoli, brussels sprouts, cabbage, cauliflower, collards, cucumbers, garlic, horseradish, kale, melons (cantaloupe, honeydew, watermelon), mustard greens, onions, potatoes (whole and cut pieces), Southern peas (black -eyed), soybeans, squash (Winter and Summer), turnip greens and turnips; Transplant Crops: broccoli, brussels sprouts, cabbage, cauliflower, eggplant, garlic, peppers, onions, sweet potatoes, tomatoes and yams.

For the control of grasses and some broadleaf weed species, such as smooth and large crabgrass, green festal, yellow festal, lovegrass, witchgrass, carpetweed, common chickweed, lambsquarters, purslane and Florida pusley. 10% Dacthal Granules is recommended at 80-90 pounds per acre. A slightly higher rate of application (up to 105 pounds per acre) of the product may be required for control of barnyardgrass, ground cherry, dodder, browntop penicum, goosegrass, johnsongrass from seed, and redroot pigweed. For control of nodding spurge, spotted spurge or prostrate spurge, apply 105-120 lbs. of 10% Dacthal Granules in mid-april or when annual weed seeds, such as crabgrass, germinate. Repeat application 6-8 weeks later. A rate of 150 lbs. per acre is recommended for control of annual bluegrass in turf. When 10% Dacthal Granules 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 10% Dacthal Granules.

Application should be made to a uniform weed-free soil surface within 2-3 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 10% Dacthal Granules at prescribed rate. Settings may vary between spreaders because of condition and other factors.

10% Dacthal Granules 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 10% Dacthal Granules on this area.

Conversion Table - Acre and Smaller Areas

Amount of 10% Dacthal Granules to Apply

If Rate per Acre is	250 sq. ft.	1,000 sq. ft.
80 pounds	7-1/2 oz.	1 lb. 14 oz.
90 pounds	8-1/4 oz.	- 2 lbs. 1 oz.
105 pounds	9-1/2 oz.	2 lbs. 6 oz.
150 pounds	14 oz.	3 lbs. 8 oz.

If there is no rain within three or four days after 10% Dacthal Granules application, sprinkler irrigatio. (1/2-1 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 be planted following harvest of Dacthal treated crop.

Any application of Dacthal should be made prior to weed seed germination.

USE PRECAUTIONS

Do not feed treated foliage to livestock or graze treated areas. Applied according to directions and under conditions favorable to good plant growth, 10% Dacthal Granules will not harm corps for which it 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 10% Dacthal Granules 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.

TURF AND ORNAMENTALS

Ornamental Turf: Apply uniformly to established turfgrass at 100 lbs. 10% Dacthal Granules per acre in the early apring before crabgrass and other annual grasses and broadlear 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 season long control. In areas which commonly experience stands of lategerminating crabgrass and other annual weedy grasses, a second application at half the regular rate can be safely made two months after the first application. To control annual bluegrass (Poa annua) and other erratic or later germinating grasses and weeds in northern states, supplement the early Spring application of 10% Dacthal Granules with an application of 150 lbs. 10% Dacthal Granules in late Summer or early Fall before weed seed germination. 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 10% Dacthal Granules may be made to new turfgrass seedlings after the grasses have exhibited a uniform greening and the grass is preferably 1-2 inches in height.

Where some Spring seeding is necessary, there should be a delay of approximately 60 days after application of 10% Dacthal Granules. This delay increases the survival of desirable

Riverdale 10% Dacthal Granules

10

grasses. Fall seeding of permanent grasses may follow a single application made either in early Spring up to not less than 60 days of seeding. 10% Dacthal granules is not recommended for use on putting-greens. 10% Dacthal is not recommended on bentgrasses when mowed at putting-green heights. Do not apply to Dichondra.

Flower Gardens: Apply after establishment of bed and conditions are favorable for good plant growth, or as a supplemental application of 90 lbs. 10% Dacthal Granules per acre. Where possible the bed should be established and application made 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 90 lbs. 10% Dacthal Granules 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 exiting 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. 10% Dacthal Granules is specifically recommended for weed control on the following nursery and ornamental plantings:

Abelia Ageratum Ajuga Alyssum Andromeda, Jap. Arborvitae Ash Aster Azalea Babysbreath Barberry Bellflower Birch Bleedingheart Bloodleaf Boxwood Bugloss Camellia Chestnut Chrysanthemum Cinquefoil Coleus Columbine Cornflower, purple Coreopsis Coralbells Cosmos Cotoneaster Cottonwood Crabapple Cuphea Cypress Daisy Delphinium Deulzia Dogwood Elaeagnus Elm Euonymus Evening Primrose Feverfew Fir Forget-me-not

Forsythia Four-O'Clock Floxglove Gallardia Geranium Gladiolus Golddust Goldentuft Ground-hemlock Gum Hawthorn Heath, Pink Holly Hydrangea Honeysuckle Iris Ivy Juniper Larkspur, candle Lavendercotton Ligustrum Lilac Lily Loblolly pine Locust Lupine Magnolia Maple Marguerite, golden Marigold Mockorange Morningglory Mother-of-thyme Mountain laurel Mourning bride Multiflora rose Nasturtium Oak Orpine Pachistima

Pachysandra Peonv Petunia Pine Pittosporum Podocarpus Poker plant Poplar Privet Privet, variegated Redbud Rhododendron Rose Russian olive Sage, scarlet Salvia Scabiosa Snapdragon Spirea Spruce Stonecrop Strawflower Sundrops Sunflower Sweet pea Sycamore Tea roses, hybrid Thyme, creeping Torch lily Tree peony Tulip tree Verbena Violet Wallflower Walnut Walgela Willow Wormwood Yarrow Yellow fernleaf Yew Zinnia

Geum Germander Mesembryanthemum Pansy Phlox Sweet William Telanthera

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

CROPS

Broccoli, Brussels sprouts, Cauliflower, Cabbage: Apply uniformly to the soil at seeding or transplanting at 80-105 lbs. 10% Dacthal Granules per acre. Application 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 80-105 lbs. 10% Dacthal granules per acre.

Seeded Cucumbers, Squash (Winter and Summer), Melons (cantaloupe, watermelon, honeydew): Apply uniformly to the soil at 80-105 lbs. 10% Dacthal granules per acre when plants have 4-5 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 (greens and roots): Apply uniformly to the soil at 80-105 lbs. 10% Dacthal Granules per acre at time of seedling.

Garlic and Onions: Apply uniformly to soil at seeding or transplanting and/or at layby at 80-105 lbs. 10% Dacthal Granules per acre. Application can be made directly over transplants without injury. A layby application can be made on onions up to 14 weeks after seeding or transplanting; on garlic, layby application can be made when the crop plant has 3-5 true leaves. Should weeds emerge prior to layby, the crop should be cultivated or weeded before application.

Horseradish: Apply uniformly to the soil at time of planting at 80-105 lbs. of 10% Dacthal Granules per acre. Preplant incorporation is not recommended.

Potatoes (whole or cut pieces): Apply uniformly to the soil at 80-105 lbs. 10% Dacthal Granules 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 irrigations should not exceed one inch. 10% Dacthal Granules is not recommended for use on potatoes in California.

Sweet Potatoes and Yams: Apply uniformly to the soil at 80-105 lbs. 10% Dacthal Granules per acre at time of transplanting or layby. Application can be made 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 application.

Strawberries: New plantings - Apply uniformly to soil at 90 lbs. per acre at time of transplanting. Established plantings - Apply in early Fall and early Spring at rate of 80-90 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.

Page 6

10

/ 🗩

109

STORAGE AND DISPOSAL

STORAGE: Store in a dry place. Do not contaminate water, food or feed by storage or disposal. PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Open dumping is prohibited. 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.

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 expressed or implied warranty, including any other expressed 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. (PR937&8 042194)