PM 23

228-305

8-12-99

AUG | 2 1999

Russell F. Sawyer Riverdale Chemical Co. 425 West 194th St. Glenwood, IL 60425-1584

Dear Mr. Sawyer:

SUBJECT:

Conversion from 2,4-DP and MCPP to 2,4-DP-p and MCPP-p

Riverdale Dissolve (R) Granular Weed Killer

EPA Reg. No. 228-305

Your Submission Dated April 23, 199

The Agency is conditionally approving an amendment to the registration of the above-referenced product under the authority of section 3(c)(7)(A) of the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA). Under this amendment the Agency is approving the conversion of the active ingredients, dichlorprop and mecoprop, from their racemic forms [2-(2,4-dichlorophenoxy) propionic acid and 2-(2-methyl-4-chlorophenoxy) propionic acid, or applicable salts thereof] to their single isomer forms [(+)-R-2-(2,4-dichlorophenoxy) propionic acid and (+)-R-2-(2-methyl-4-chlorophenoxy) propionic acid, or applicable salts thereof]. The revised labeling and Confidential Statement(s) of Formula submitted in support of the conversion are acceptable with the following provisions:

- 1. This acceptance is based on your certification that no changes have been made to the Confidential Statement(s) of Formula (CSF) or the product labeling other than those specified within the body of your certification statement. No other revisions are being reviewed or considered with this action.
- 2. You may sell or distribute product containing the racemic forms of dichlorprop and mecoprop, or applicable salts thereof, and bearing the previously approved labeling for 18 months from the date of this letter.

Copies of the revised Confidential Statement(s) of Formula (Basic Formulation and Alternate Formulations, dated 4/23/99) have been placed in the Agency's file for the subject product. These CSF(s) supersedes all previously submitted CSFs for this product.

CONCURRENCES								
SYMBOL >	1505C							•
SURNAME ►	Marken		i					
DATE	8/12/99			***************************************	***************************************			
FPA Form 132	0-1 (12-70)						OFFICIAL FIL	F COPY

A stamped copy of the labeling is enclosed for your records. Submit one copy of your final printed labeling before you release the product for shipment.

Sincerely yours,

Joanne I. Miller Product Manager (23) Herbicide Branch Registration Division (7505C)

Enclosure

#### (Commercial Label)

#### RIVERDALE

#### DISSOLVE® GRANULAR WEED KILLER

# THIS PRODUCT IS A PREMIUM GRADE HERBICIDE WHICH CONTROLS A WIDE SPECTRUM OF BROADLEAF WEEDS

Weeds contacted by this product gradually die and disappear from the lawn.

Treats (or Covers) 5,000 Sq. Pt. (50' x 100')

#### GET THE OPTICAL ADVANTAGE"

ACTIVE INGREDIENTS: †					
Dimethylamine Salt of 2,4-Dichlorophenoxyacetic Acid*				0.700%	5
Dimethylamine Salt of (+)-R-2-(2-Methyl-4-Chlorophenoxy)propionic Acid** #					5
Dimethylamine Salt of (+)-R-2-(2,4-Dichlorophenoxy)propionic Acid***					L.
INERT INGREDIENTS:					5
TOTAL				100.000%	5
ISOMER SPECIFIC METHOD, EQUIVALENT TO:  *2,4-Dichlorophenoxyacetic Acid  **(+)-R-2-(2-Methyl-4-Chlorophenoxy)propionic Acid  ***(+)-R-2-(2,4-Dichlorophenoxy)propionic Acid  ***(+)-R-2-(2,4-Dichlorophenoxy)propionic Acid  ***ONTAINS THE SINGLE ISOMER FORMS OF MECOPROP-p AND DICHLORPROP-p.				. 0.15%	5
†DISSOLVE® IS A REGISTERED TRADEMARK OF RIVERDALE CHEMICAL COMPANY Patent THE OPTICAL ADVANTAGE™ IS A TRADEMARK OF RIVERDALE CHEMICAL COMPANY	. I	10.	. 5	5,266,553	3

### KEEP OUT OF REACH OF CHILDREN

#### CAUTION

SEE BACK PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS
AND STATEMENT OF PRACTICAL TREATMENT

NET WEIGHT

LBS.

EPA REG. NO. 228-305

EPA EST. NO. 228-IL-1

### MANUFACTURED BY

RIVERDALE CHEMICAL COMPANY

GLENWOOD, ILLINOIS 60425-1584

ACCEPTED with COMMENTS In EPA Letter Dated AUG | 2 1999

Under the Federal disessicide, Fundicide, and Rodenifide Act as amended, for the pesticide registered under EPA Reg. No. 228-305

Revised 4/23/99 Converted MCPP and 2,4-DP to Optical Isomers.

(Back Panel)

#### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

#### CAUTION

Causes moderate eye injury. Harmful if absorbed through skin. Avoid inhalation of dust and contact with eyes, skin, or clothing. Wear long pants, long-sleeved shirt, socks, shoes and gloves when loading and applying this product. After using this product remove clothing and launder separately before reuse, and promptly and thoroughly wash hands and exposed skin with soap and water. The maximum number of broadcast applications per treatment site is 2 per year. Do not allow people (other than applicator) or pets on treatment area during application. Do not enter treatment areas until dust has settled.

#### STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Call a physician or Poison Control Center. Drink 1 or 2 glasses of water

and induce vomiting by touching back of throat with finger. Do not induce

vomiting or give anything by mouth to an unconscious person.

Flush eyes with plenty of water. Call a physician if irritation persists. Wash with plenty of soap and water. Get medical attention. IF IN EYES:

IF ON SKIN:

Remove victim to fresh air. If not breathing, give artificial respiration, IF INHALED:

preferably mouth-to-mouth. Get medical attention.

#### ENVIRONMENTAL HAZARDS

This product is toxic to aquatic invertebrates. Drift or runoff may adversely affect aquatic invertebrates and nontarget plants. 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, nor pour the washwater on the ground; spray or drain over a large area away from wells and other water sources.

Most cases of groundwater contamination involving phenoxy herbicides such as 2,4-D, MCPP and 2,4-DP have been associated with mixing/loading and disposal sites. Caution should be exercised when handling these phenoxy pesticides at such sites to prevent contamination of groundwater supplies. Use of closed systems for mixing and transferring this pesticide will reduce the probability of spills. Placement of the mixing/loading equipment on an impervious pad to contain spills will help prevent groundwater contamination.

## 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 PRODUCT. USE STRICTLY IN ACCORDANCE WITH LABEL PRECAUTIONARY STATEMENTS AND DIRECTIONS.

DISSOLVE® GRANULAR WEED KILLER is a stable mixture of three herbicides. It is for use on Lawns, Ornamental Turf, Parks, and Golf Courses (Fairways, Aprons, Tees and Roughs) and other similar non-crop areas.

This product may be used on Bahia, common Bermuda, Bluegrass, Centipede, Fescue, Rye, St. Augustine, and Zoysia grass. DO NOT USE on Dichondra and Carpet grass. DO NOT USE this product where desirable clovers are present or allow the product to "wind drift" onto flowers, vegetables, ornamentals, shrubs, trees or other desirable plants.

This product is designed to control many broadleaf weeds, such as: Alder, Artichoke, Aster, Austrian fieldcress, Beggartick, Biden, Bindweed, Bitterweed, Bitter winter cress, Black medic, Blessed thistle, Blue lettuce, Box elder, Broomweed, Buckhorn, Bull thistle, Burdock, Bur ragweed, Buttercup, Canada thistle, Carpetweed, Catnip, Chickweed, Chicory, Clover, Cockle, Cocklebur, Coffeebean, Coffeeweed, Common sowthistle, Creeping jenny, Croton, Curly, indigo, Dandelion, Dock, Dogbane, Dogfennel, Elderberry, English daisy, Fleabane (daisy), Flixweed, Florida pusley, Frenchweed, Galinsoga, Goatsbeard, Goldenrod, Ground ivy Gumweed, Hawkweed, Healall, Heartleaf drymary, Hemp, Henbit, Hoary cress, Honeysuckle, Horsetail, Indiana mallow, Ironweed, Jewelweed, Jimsonweed, Kochia, Knotweed, Lambsquarter, Locoweed, Lupine, Mallow, Marshelder, Mexicanweed, Morningglory, Musk thistle, Mustard, Nettle, Nutgrass, Orange hawkweed, Oxalis, Parsnip, Pennycress, Pennywort, Peppergrass, Pepperweed; Pigweed, Plantain, Poison hemlock, Poison ivy, Poison oak, Poke-

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weed, Poorjoe, Povertyweed, Prickly lettuce, Primrose, Puncture vine, Purslane, Ragweed, Red clover, Red sorrel, Rush, Russian thistle, St. Johnswort, Sheep sorrel, Shepherds-purse, Smartweed, Sneezeweed, Southern wild rose, Sowthistle, Spanishneedle, Spatterdock, Speedwell, Spurge, Spurweed, Stinkweed, Stitchwort, Sumac, Sunflower, Sweet clover, Tarweed, Thistle, Toadflax, Tumbleweed, Velvet leaf, Veronica, Vervain, Vetch, Virginia buttonweed, Virginia creeper, Wild aster, Wild carrot, Wild garlic, Wild geranium, Wild lettuce, Wild onion, Wild radish, Wild rape, Wild strawberry, Wild sweet potato, Willow, Witchweed, Woodsorrel, Wormseed, Yarrow, Yellow rocket, and other broadleaf weeds.

WHEN TO APPLY: Best results are obtained when weeds are growing actively in Spring or early Fall. Avoid contact with desirable shrubs, plants, vegetables, or flowers; especially when applying with a rotary (spinner) type spreader. Do not reseed for at least 3 to 4 weeks after application. Do not apply to newly seeded or sodded lawn until after 3 mowings. For optimum results (1) Avoid mowing 1 to 2 days before and after application; (2) Apply when grass is moist (after a rain, sprinkling or dew); (3) Avoid unnecessary disturbances, including watering of treated areas for 48 hours after application. Watering will wash off weed killing material; and (4) Avoid applying if rainfall is expected within 48 hours following treatment. Possible retreatment in approximately 30 days may be accessary if lawn is heavily overrun with weeds or if adverse low moisture conditions prevail and weeds are in a state of poor growth. Do not exceed recommended rates because damage to turf may occur.

NOTE: When applying to Southern grasses - under conditions of inadequate moisture, high temperature and high humidity, over-application may cause minor transitory discoloration on Centipede and St. Augustine grasses. It is recommended that during hot, dry conditions, application rates should be reduced 50% to avoid possible dehydration or browning of grass.

HOW TO APPLY: This 20 pound bag should be used on 5000 square feet. Apply evenly with a lawn spreader as a one pass application. A two pass application, criss-crossing the area at half the rate each time is also acceptable.

The following settings are <u>approximate</u> for applying contents of this package at a suggested rate of 4 pounds per 1000 square feet. Settings are based on an average walking speed. Reduce setting for slower speed; raise setting for higher speed. Check your spreader on 250 sq. ft. and adjust to apply at the rate of 1 lb. per 250 sq. ft.

SPREADER SETTINGS ONE PASS APPLICATION:

<u>MAKE</u>	<u>SETTING</u>
Central Calibrated	5
Cyclone Broadcast	3-3/4
Jackson	5
Sears Broadcast	3
Sears	5
Scotts Calibrated	4

#### STORAGE AND DISPOSAL

STORAGE: Always use original container to store pesticides in a secured warehouse or storage building. Do not store near open containers of other pesticides or seeds, fertilizers, insecticides or fungicides. Do not stack more than two pallets high. Do not contaminate water, food or feed by storage or disposal.

PESTICIDE DISPOSAL: Pesticide wastes are toxic. If container is damaged or if pesticide has leaked, clean up all spilled material. Improper disposal of excess pesticide, spray mixtures or rinsate is a violation of Federal law and may contaminate groundwater. If these wastes cannot be disposed of by use according to label instructions, contact your, state pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance

CONTAINER DISPOSAL: Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay away from smoke.

NOTICE: Seller makes no warranty, expressed or implied, concerning the use of this product other than indicated on the label. Buyer assumes all risk of use and/or handling of this

Riverdale Dissolve® Granular Weed Killer (Commercial)

Page 4

material when such use and/or handling is contrary to label instructions.

(RV 042399)

## OPTIONAL SPREADER INSTRUCTIONS:

(Illustration) For Drop Spreaders: First apply two strips at ends. Then apply

product along the length of the lawn, overlapping very slightly and

shutting off spreader when turning.

(Illustration) For Rotary Spreaders: Apply in a circular path, starting on the

outside and working toward the center, overlapping very slightly.

#### OPTIONAL MARKETING STATEMENTS:

Contains Dissolve® A Premium Broadleaf Herbicide

# Environmental Benefits (Grasscycling

Logo)

Besides increasing property values, did you know a well-maintained lawn provides the following benefits to your home and environment:

Grass clippings and yard waste are approximately 20% of the volume in our nation's landfills. To do your part to reduce this amount, leave grass clippings on your lawn. Increased mowing height and frequency will produce smaller grass clippings that will decompose more readily so nutrients go back into your lawn.

- ✓ A 50' x 50' lawn produces enough oxygen for a family of 4 every day
- ✔ Reduces Glare & Reduces Noise
- ✓ Traps Dust, Smoke Particles & other
- ✔ Pollutants
- ✓ Purifies Water & Modifies Temperature Improves Soil Condition & Controls Erosion

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"NOTE: Spreader Settings will vary among various commercial manufacturers.

#### RIVERDALE'

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Treats (or Covers) 5,000 Sq. Ft. (50' x 100')

#### GET THE OPTICAL ADVANTAGE

ACTIVE INGREDIENTS: †
Dimethylamine Salt of 2,4-Dichlorophenoxyacetic Acid* 0.700%
Dimethylamine Salt of (+)-R-2-(2-Methyl-4-Chlorophenoxy)propionic Acid** 0.182%
Dimethylamine Salt of (+)-R-2-(2,4-Dichlorophenoxy)propionic Acid*** 0.179%
INERT INGREDIENTS: .*
TOTAL 100.000%
TOOMED CDECTRIC NEWHOD BOLLING DAW MO
ISOMER SPECIFIC METHOD, EQUIVALENT TO:
*2,4-Dichlorophenoxyacetic Acid
**(+)-R-2-(2-Methyl-4-Chlorophenoxy)propionic Acid
***(+)-R-2-(2,4-Dichlorophenoxy)propionic Acid
‡CONTAINS THE SINGLE ISOMER FORMS OF MECOPROP-p AND DICHLORPROP-p.
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#### KEEP OUT OF REACH OF CHILDREN

#### CAUTION

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NET WEIGHT

LBS.

**EPA REG. NO. 228-305** 

EPA EST. NO. 228-IL-1

MANUFACTURED BY

RIVERDALE CHEMICAL COMPANY

GLENWOOD, ILLINOIS 60425-1584

ACCEPTED
with COMMENTS
In EPA Letter Dated

AUG 12 1999

Revised 4/23/99 Converted MCPP and 2,4-DP to Optical Isomers. Under the Federal Incertible. Act

Under the Federal Insecticide, Fundicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 228-305

Riverdale Dissolve® Granular Weed Killer (Non-Commercial)

(Back Panel)

#### PRECAUTIONARY STATEMENTS

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#### CAUTION

Causes moderate eye injury. Harmful if absorbed through skin. Avoid inhalation of dust and contact with eyes, skin, or clothing. Wear long pants, long-sleeved shirt, socks and shoes when applying this product. After using this product remove clothing and launder separately before reuse, and promptly and thoroughly wash hands and exposed skin with soap and water. The maximum number of broadcast applications per treatment site is 2 per year. Do not allow people (other than applicator) or pets on treatment area during application. Do not enter treatment areas until dust has settled.

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Call a physician or Poison Control Center. Drink 1 or 2 glasses of water IF SWALLOWED:

and induce vomiting by touching back of throat with finger. Do not induce

vomiting or give anything by mouth to an unconscious person.

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

IF ON SKIN:

Wash with plenty of soap and water. Get medical attention. Remove victim to fresh air. If not breathing, give artificial respira-IF INHALED:

tion, preferably mouth-to-mouth. Get medical attention.

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# SPREADER SETTINGS

ONE	PASS	APPLICATION: °
-----	------	----------------

MAKE	<u>SETTING</u>
Central Calibrated	5
Cyclone Broadcast	3-3/4
Jackson	5
Sears Broadcast	3
Sears	5
Scotts Calibrated	4

#### STORAGE AND DISPOSAL

**STORAGE:** Store in original container and keep any bags containing unused product in locked storage area inaccessible to children and domestic animals. Do not store near other feed or foodstuffs. To prevent cross-contamination, do not store near open containers of other pesticides or seeds.

**PESTICIDE DISPOSAL:** To dispose of bag which contains unused product, securely wrap original container in several layers of newspaper and discard in trash.

CONTAINER DISPOSAL: Do not reuse empty bag. Fold empty bag and discard in trash.

NOTICE: Seller makes no warranty, expressed or implied, concerning the use of this product other than indicated on the label. Buyer assumes all risk of use and/or handling of this material when such use and/or handling is contrary to label instructions. (RV 042399)

#### OPTIONAL SPREADER INSTRUCTIONS:

(Illustration) For Drop Spreaders: First apply two strips at ends. Then apply product along the length of the lawn, overlapping very slightly and shutting off spreader when turning.

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Riverdale Dissolve® Granular Weed Killer (Non-Commercial)

Page 4

OPTIONAL MARKETING STATEMENTS

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