

Please read instructions on reverse before completing form.

Form Approved. OMB No. 2070-0060. Approval expires 2-28-95.



United States
Environmental Protection Agency
Washington, DC 20460

Registration
 Amendment
 Other

OPP Identifier Number
228080

Application for Pesticide - Section I

1. Company/Product Number 228-265	2. EPA Product Manager Joanne I. Miller	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Riverdale Dissolve (R)	PM# 23	
5. Name and Address of Applicant (Include ZIP Code) Riverdale Chemical Company 425 West 194th Street Glenwood, Illinois 60425-1584 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3)(b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Adding another water soluble package size and an alternate brand name.
That name is Dissolve (R) Backpack.

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child Resistant Packaging <input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Metal	<input checked="" type="checkbox"/> Plastic
* Certification must be submitted		If "Yes" Unit Packaging wgt. No. per container	If "Yes" Package wgt. No. per container	<input type="checkbox"/> Glass	<input type="checkbox"/> Paper
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container 1 lb. 11-1/2 oz.		5. Location of Label Directions <input checked="" type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input checked="" type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled				<input type="checkbox"/> Other _____	

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Russell E. Sawyer	Title Regulatory Affairs Manager	Telephone No. (Include Area Code) 708/754-3330
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received (Stamped)
2. Signature 	3. Title Regulatory Affairs Manager	
4. Typed Name Russell E. Sawyer	5. Date January 17, 1996	

2 9 11

(MASTER LABEL)

RIVERDALE

DISSOLVE®

A WATER SOLUBLE HERBICIDE

A THREE-WAY POST-EMERGENT SELECTIVE HERBICIDE CONTAINING THE AMINES OF 2,4-D, MECOPROP AND DICHLORPROP. FOR USE ON GOLF COURSES, PARKS, HIGHWAYS, SOD FARMS, ORNAMENTAL TURF LAWNS AND SIMILAR NON-CROP AREAS. KILLS DANDELIONS CHICKWEEDS, PLANTAINS, OXALIS, SPURGE AND MANY OTHER BROADLEAF WEEDS, SOME OF WHICH ARE LISTED ON THIS LABEL.

ACTIVE INGREDIENTS:

Dimethylamine Salt of 2,4-Dichlorophenoxyacetic Acid*	46.96%
Dimethylamine Salt of 2-(2-Methyl-4-Chlorophenoxy)propionic Acid**	24.20%
Dimethylamine Salt of 2-(2,4-Dichlorophenoxy)propionic Acid***	23.84%
INERT INGREDIENTS:	5.00%
TOTAL	100.00%

By Isomer Specific AOAC Method, Equivalent to:

*2,4-Dichlorophenoxyacetic Acid	39.0%
**2-(2-Methyl-4-Chlorophenoxy)propionic Acid	20.0%
***2-(2,4-Dichlorophenoxy)propionic Acid	20.0%

Dissolve® Is A Registered Trademark of Riverdale Chemical Company Patent No. 5,266,553

For Use By Professional Turf Maintenance Personnel,
Landscaping or Commercial Applicators Only

KEEP OUT OF REACH OF CHILDREN

DANGER - PELIGRO

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 PANELS FOR ADDITIONAL PRECAUTIONARY STATEMENTS AND STATEMENT OF PRACTICAL TREATMENT

NET CONTENTS: 4 LB. 14 OZS. (FIBER CANISTER)
(or) 25 LBS. (10 X 2-1/2 LB. PACKETS)
(or) 5 LBS. (8 X 10 OZ. PACKETS)
(or) 1 LB. 11-1/2 OZS. (10 X 2-3/4 OZ. PACKETS)

EPA REG. NO. 228-265

EPA EST. NO. 228-IL-1

MANUFACTURED BY

RIVERDALE CHEMICAL COMPANY

GLENWOOD, ILLINOIS 60425-1584

PRECAUTIONARY STATEMENTS**HAZARDS TO HUMANS AND DOMESTIC ANIMALS****DANGER - PELIGRO**

CORROSIVE: Causes irreversible eye damage. May be fatal if swallowed or absorbed through the skin. Do not get in eyes, or on skin or clothing. Avoid inhalation of spray mists. Harmful if inhaled. Remove saturated clothing as soon as possible and shower.

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: face shield, goggles or safety glasses and long pants, long-sleeved shirt, socks, shoes and rubber gloves. It is recommended that safety glasses include front, brow and temple protection. In addition to the clothing and eye protection listed above, commercial mixer/loader/applicators must wear chemical resistant in place of rubber gloves except when the product is applied to a golf course. 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 to turf per treatment site is 2 per year.

NON-WPS INDUSTRIAL USES: When mixing, loading or applying this product or repairing or cleaning equipment used with this product, wear face shield or goggles and chemical resistant gloves, long-sleeved shirt, long pants, socks and shoes. For aerial applicators in an enclosed cockpit and applicators applying this product from a tractor that has a completely enclosed cab, eye protection is not required. Wash hands, face and arms with soap and water as soon as possible after mixing, loading or applying this product. After work, remove all clothing and shower using soap and water. Do not reuse clothing worn during the previous day's mixing and loading or application of this product without cleaning first. Clothing must be kept and washed separately from other household laundry.

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: coveralls over short-sleeved shirt and short pants, waterproof gloves, chemical-resistant footwear plus socks, protective eyewear, chemical-resistant headgear for overhead exposure and chemical-resistant apron when cleaning equipment, mixing, or loading. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's 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. After each day of use, clothing or PPE must not be reused until it has been cleaned.

Engineering Controls Statements: 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.

STATEMENT OF PRACTICAL TREATMENT

IF IN EYES: Hold eyelids open and flush with a steady, gentle stream of water for 15 minutes. Get medical attention at once.

IF SWALLOWED: Drink promptly a large quantity of milk, egg whites, gelatin solution, or if these are not available drink large quantities of water. Get medical attention. Do not give anything by mouth to an unconscious person.

IF ON SKIN: Wash with plenty of soap and water. Get medical attention.

IF INHALED: Remove victim to fresh air. If not breathing, give artificial respiration, 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 apply when weather conditions favor drift from target area. Clean and rinse spray equipment using soap or detergent and water, and rinse thoroughly before reuse for other spraying. When cleaning equipment, do not pour the washwater on the ground; spray or drain over a large area away from wells and other water sources. Do not contaminate water when disposing of equipment washwaters. Do not apply this product through any type of irrigation system. Do not contaminate domestic or irrigation waters.

Most cases of groundwater contamination involving phenoxy herbicides such as 2,4-D, MCP 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 or 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.

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.

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 48 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 over short-sleeved shirt and short pants, waterproof gloves, chemical-resistant footwear plus socks, protective eyewear and chemical resistant headgear for overhead exposure.

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. For Turf use, do not allow people (other than applicator) or pets on treatment area during application. Do not enter treatment areas until spray has dried.

(For 4 lb. 14 oz. - Fiber Canister)

GENERAL INFORMATION

Riverdale Dissolve® is a stable water soluble mixture of three herbicides. This 4 lb. 14 oz. container will treat from 87,000 to 117,450 square feet (2 to 2.7 acres) of cool season grasses or 117,450 to 174,000 square feet (2.7 to 4 acres) of Bahia, Bent, Bermuda, Centipede, St. Augustine, and Zoysia grasses. Maximum kill of common weeds will be obtained by applying in Spring and early Fall when weeds are actively growing.

TO OPEN: Lift plug with screwdriver or like tool.

TO CLOSE: Re-secure tightly with hammer or like tool.

Just add the recommended water to your spray tank, then add the appropriate amount of water soluble Dissolve into the spray tank, agitate for three to five minutes. Dissolve will make a stable water solution. It is non-flammable. Dissolve is for use on lawns, turf (not pastures), golf courses (fairways, aprons, tees, and roughs), parks, highways, sod farms, cemeteries, and similar non-crop areas.

Note: Two "heaping" tablespoonfuls equals one ounce of Dissolve.

(For 2-1/2 lb. - Water Soluble Packets)

GENERAL INFORMATION

Riverdale Dissolve is a stable water soluble mixture of three herbicides. Each 2-1/2 lb. water soluble packet will treat from 43,500 to 58,000 square feet (1 to 1-1/3 acres) of cool season grasses or 58,000 to 87,000 square feet (1-1/3 to 2 acres) of Bahia, Bent, Bermuda, Centipede, St. Augustine, and Zoysia grasses. Maximum kill of common weeds will be obtained by applying in Spring and early Fall when weeds are actively growing.

Just add the recommended water to your spray tank, then remove the water soluble packet from plastic outer bag, add the appropriate Dissolve into the spray tank, agitate for three to five minutes. Dissolve will make a stable water solution. It is non-flammable. Dissolve is for use on lawns, turf (not pastures), golf courses (fairways, aprons, tees, and roughs), parks, highways, sod farms, cemeteries, and similar non-crop areas.

The 1 acre coverage is equivalent to 2 lbs. AI/Acre; the 1-1/3 acre coverage is equivalent to 1-1/2 lbs. AI/Acre. The 2 acre coverage is equivalent to 1 lb. AI/Acre.

NOTES: (1) Exposure to moisture prior to mixing may cause water soluble bag to rupture.
(2) Individual water soluble bags are not to be offered for sale.

(For 10 oz. - Water Soluble Packets)

GENERAL INFORMATION

Riverdale Dissolve is a stable water soluble mixture of three herbicides. Each 10 oz. water soluble packet will treat from 10,000 to 15,000 square feet (prox. 1/4 to 1/3 acre) of cool season grasses or 15,000 to 22,000 square feet (prox. 1/3 to 1/2 acre) of Bahia, Bent, Bermuda, Centipede, St. Augustine, and Zoysia grasses. Maximum kill of common weeds will be obtained by applying in Spring and early Fall when weeds are actively growing.

Just add the recommended water to your spray tank, then remove the water soluble packet from plastic outer bag, add the appropriate Dissolve into the spray tank, agitate for three to five minutes. Dissolve will make a stable water solution. It is non flammable. Dissolve is for use on lawns, turf (not pastures), golf courses (fairways, aprons, tees, and roughs), parks, highways, sod farms, cemeteries, and similar non crop areas.

The 10,000 sq. ft. coverage is equivalent to approximately 2 lbs. AI/Acre; the 15,000 square feet coverage is equivalent to approximately 1-1/2 lbs. AI/Acre. The 22,000 square feet coverage is equivalent to approximately 1 lb. AI/Acre.

NOTES: (1) Exposure to moisture prior to mixing may cause water soluble bag to rupture.
(2) Individual water soluble bags are not to be offered for sale.

(For 1/4 oz. - Water Soluble Packets)

GENERAL INFORMATION

Riverdale Dissolve® is for use on Lawns, Turf, Golf Courses (Fairways, Aprons, Tees and

Roughs), Parks, Cemeteries and similar non-crop areas. Not for use on turf being grown for sale or other commercial use as sod, or for commercial seed production or for research purposes.

Riverdale Dissolve® is a stable, non-flammable mixture of three herbicides. Each 2-3/4 oz. water soluble packet will treat from 3,000 to 4,000 square feet of Bluegrass, Fescue, Rye, Bahia, Bent, common Bermuda, Centipede, St. Augustine, and Zoysia grasses. Maximum kill of common weeds will be obtained by applying in Spring and early Fall when weeds are actively growing.

Just add half the recommended water to your two, three, or four gallon spray tank or handcan, then remove the water soluble packet from the outer bag, add one 2-3/4 oz. Dissolve water soluble packet into the spray tank, allow two to three minutes to totally solubilize. Shake well. Add remaining water and shake again. Dissolve will make a stable water solution.

NOTES: (1) Exposure to moisture prior to mixing may cause water soluble bag to rupture.
(2) Individual water soluble bags are not to be offered for sale.

USE PRECAUTIONS

(All packages except 2-3/4 oz.)

Care must be taken to avoid drift of spray mists to non-target susceptible plants such as cotton, vegetables, flowers, ornamentals, shrubs, trees, and other desirable plants. Do not allow spray mist to contact these plants. Do not spray on carpetgrass, dichondra, nor on grasses where desirable clovers are present. Avoid fine mists. Use a lawn type sprayer with coarse spray as wind drift is less likely. Do not spray exposed roots of desirable plants. Use the higher rate for hard-to-kill weeds. Do not exceed specified application dosages for any area. Apply to newly seeded lawns or turf after grasses are well established. Spray when air temperature is less than 90°F. Avoid applying during excessively dry or hot periods unless irrigation is used. Do not irrigate 24 hours prior to application.

For optimum results: (1) turf should not be mowed for 1 to 2 days before and after application; (2) do not apply if rainfall is expected within 48 hours; nor should lawns be irrigated (watered) for 48 hours following application. Reseed no sooner than three to four weeks after application of this product. Failure to observe all precautions may result in injury to turf and/or susceptible plants.

Dissolve can be mixed with some liquid fertilizers or liquid iron materials. Because liquid fertilizers and liquid iron differ in pH, free ammonia content, density, salt concentration, and percentage of water, a compatibility test is recommended prior to mixing in the application equipment. All regulations, either State or Federal, relating to the application of liquid fertilizers or liquid iron and this product must be strictly followed.

(Only for 2-3/4 oz. Water Soluble Packets)

Care must be taken to avoid drift of spray mists to non-target susceptible plants such as cotton, vegetables, flowers, ornamentals, shrubs, trees, and other desirable plants. Do not allow spray mist to contact these plants. Do not spray on carpetgrass, dichondra, nor on grasses where desirable clovers are present. Avoid fine mists. Use a lawn type sprayer with coarse spray as wind drift is less likely. Do not spray exposed roots of desirable plants. Use the higher rate for hard-to-kill weeds. Do not exceed specified application dosages for any area. Apply to newly seeded lawns or turf after grasses are well established. Spray when air temperature is less than 90°F. Avoid applying during excessively dry or hot periods unless irrigation is used. Do not irrigate 24 hours prior to application.

For optimum results: (1) turf should not be mowed for 1 to 2 days before and after application; (2) do not apply if rainfall is expected within 48 hours; nor should lawns be irrigated (watered) for 48 hours following application. Reseed no sooner than three to four weeks after application of this product. Failure to observe all precautions may result in injury to turf and/or susceptible plants.

When spot treating in warm season grasses, applications should be limited directly to the weed surface to reduce potential injury to desirable turf species.

WEEDS CONTROLLED BY DISSOLVE®

Alder, Artichoke, Aster, Austrian fieldress, Beqqartick, Bideu, Bindweed, Bitterweed,

Bitter wintercress, 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 sow-thistle, Creeping jenny, Croton, Curly indigo, Dandelion, Dock, Dogbane, Dogfennel, Elderberry, English daisy, Flea bane (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, Lupines, 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, Pokeweed, Poorjoe, Povertyweed, Prickly lettuce, Primrose, Puncture vine, Purslane, Ragweed, Red clover, Red sorrel, Rush, Russian thistle, St. Johnswort, Sheep sorrel, Shepherdspurse, 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 broad-leaf weeds.

ORNAMENTAL LAWNS AND TURF

(For 4 lb. 14 oz. - Fiber Canister)

Cool Season Grasses - such as Bluegrass, Fescue and Rye:

For normal application, use Dissolve at a rate of 1.8 to 2.5 lbs. per acre in sufficient water for good coverage, 40 to 200 gallons of water per acre (1 to 4 gallons of water per 1000 square feet is normal). For small lawns use 1 to 2 tablespoons in one gallon water per 1000 square feet.

Warm Season Grasses - St. Augustine, Bahia, common Bermuda, Centipede and Zoysia grasses: Apply Dissolve at a maximum rate of 1.2 to 1.8 lbs. in up to 150 gallons of water per acre (1/2 to 1 oz. in 3 gallons of water per 1000 square feet). Do not spray St. Augustine, or Centipede grasses if stressed from heat, drought, etc. Slight turf yellowing should disappear after about 1 week. Exercise care when applying during growth stages from dormancy to green-up and from green-up to dormancy.

Note: Some hybrid Bermuda grasses may be sensitive to this product. Contact your local extension service weed control specialist.

Bentgrass Turf: On closely mowed Bentgrass - other than golf course greens and tees, apply Dissolve at a maximum rate of 1/2 to 2/3 ounce in 3 gallons water per 1000 square feet (1.2 to 1.8 lbs. per acre) in May or mid-August through September when weeds are actively growing. Exercise care to avoid over-dosing bentgrass or injury may result. Slight turf yellowing should disappear after about 1 week.

Low Volume Applicator: When using a Low Volume Applicator (such as Lawn Doctor's "Turf Tamer" use Dissolve at a rate of 1.8 to 2.5 lbs. per acre (2/3 to 1 oz. in 1/2 gallon of water per 1000 square feet).

Herbi™ Controlled Droplet Applicator: Reduced rates (use 1/2 of rate shown above) of Dissolve must be used when grass is stressed from heat, drought, etc. For cool season and common Bermuda grasses, add 1.4 to 1.8 lbs. of Dissolve to the 5 pint Herbi™ bottle, then fill with 5 pints of water (or 4-1/2 pints of water and 1/2 pint of a surfactant) then agitate the solution. For listed warm season grasses use .7 to 1 lb. of Dissolve in 5 pints of water (or 4 1/2 pints of water and 1/2 pint of surfactant) then agitate the solution. While walking at approximately 1 pace (3 feet) per second; spray entire contents over 33,000 square feet (3/4 of an acre). Do not overlap (double coverage) at edge of spray patterns.

Herbi™ is a trademark of North American Micron.

SIMILAR NON-CROP AREAS

Use for lawns, parking areas and gravel filled rights of way, and other similar non-crop areas. For the control of broadleaf weeds, mix at a rate of 1.8 to 4 lbs. of Dissolve per 10 to 200 gallons of water. This mixture will cover 43,000 square feet of area. Thoroughly saturate all weeds with spray mixture. Apply when plants are in full leaf. Spray to the time plants begin to be dormant. Best results are obtained when weeds are younger and actively growing. Do not cut weeds until herbicide has translocated to the point of the plant causing root death. For small broadleaf weeds use the lower rates. Heavy weed stands require the higher rate with high water volume. For small repeat applications with

small tank sprayers use at the rate of 1/2 to 1-3/4 ounces Dissolve per gallon of water and spray to thoroughly wet all foliage.

For control of woody plants, apply to both stems and foliage from the time foliage is completely matured until the plants start to go dormant. All leaves, stems and suckers must be completely wet to the ground line for effective control. Regrowth may be anticipated on the more resistant species. Add 4.8 to 7.3 lbs. Dissolve to 200 gallons of water using 200 to 600 gallons of spray mixture per 43,500 square feet depending upon the heights and thickness of the brush. Mix thoroughly before spraying.

This product is sold by weight and not by volume. If it does not appear full when opened, it is because contents have settled during shipping handling.

ORNAMENTAL LAWNS AND TURF

(For 2-1/2 lb. Water Soluble Packets)

Cool Season Grasses - such as Bluegrass, Fescue and Rye:

Each 2-1/2 lb. water soluble packet will treat 1 to 1-1/3 acres (43,500 to 58,000 square feet). Add each Dissolve 2-1/2 lb. packet to 20 to 230 gallons of water per acre (1 to 4 gallons of water per 1000 square feet is normal).

Warm Season Grasses - St. Augustine, Bahia, common Bermuda, Centipede and Zoysia grasses: Each Dissolve 2-1/2 lb. water soluble packet will treat 1-1/3 to 2 acres (58,000 to 87,000 square feet). Add the Dissolve 2-1/2 lb. packet to 20 to 230 gallons of water per acre (1 to 4 gallons of water per 1000 square feet is normal). Do not spray St. Augustine, or Centipede grasses if stressed from heat, drought, etc. Slight turf yellowing should disappear after about 1 week. Exercise care when applying during growth stages from dormancy to green-up and from green-up to dormancy.

Note: Some hybrid Bermuda grasses may be sensitive to this product. Contact your local extension service weed control specialist.

Bentgrass Turf: On closely mowed Bentgrass - other than golf course greens and tees, apply Riverdale Dissolve 2-1/2 lb. packets at the same rates as for warm season grasses, in May or mid-August through September when weeds are actively growing. Exercise care to avoid over-dosing bentgrass or injury may result. Slight turf yellowing should disappear after about 1 week.

Low Volume Applicator: When using a Low Volume Applicator (such as Lawn Doctor's "Turf Tamer") empty contents of 2-1/2 lb. water soluble packet into 1/2 gallon of water to treat 1 to 1-1/3 acres.

Herbi™ Controlled Droplet Applicator: Reduced rates (use 1/2 of rate shown above) of Dissolve must be used when grass is stressed from heat, drought, etc. For cool season and common Bermuda grasses, empty 1/2 to 3/4 of 2-1/2 lb. water soluble packet of Dissolve into 5 pint Herbi™ bottle, then fill with 5 pints of water (or 4-1/2 pints of water and 1/2 pint of a surfactant) then agitate the solution. For listed warm season grasses empty 1/4 to 2/5 of 2-1/2 lb. water soluble packet of Dissolve into 5 pints of water (or 4-1/2 pints of water and 1/2 pint of surfactant) then agitate the solution. While walking at approximately 1 pace (3 feet) per second; spray entire contents over 33,000 square feet (3/4 of an acre). Do not overlap (double coverage) at edge of spray patterns. Herbi™ is a trademark of North American Micron.

SIMILAR NON-CROP AREAS

Roadsides (including aprons and guard rails) rights-of-way, and other SIMILAR NON-CROP AREAS: For the control of broadleaf weeds, mix each 2-1/2 lb. packet of Riverdale Dissolve in 50 to 300 gallons of water. This mixture will cover 43,500 square feet (1 acre). Thoroughly saturate all weeds with spray mixture. Apply when plants come into full leaf (Spring) to the time plants begin to go dormant. Best results are obtained when weeds are young and actively growing. Do not cut weeds until herbicide has translocated throughout the plant causing root death. For small broadleaf weeds use the lower rate. Heavy, dense stands require the higher rate with high water volume.

For control of woody plants, apply to both stems and foliage from the time foliage is completely matured until the plants start to go dormant. All leaves, stems and suckers must be completely wet to the ground line for effective control. Regrowth may be anticipated on the more resistant species. Add two to three, 2-1/2 lb. water soluble packets of Riverdale Dissolve to 100 gallons of water using 200 to 600 gallons of spray mixture per 43,500 square feet (1 acre) depending upon the height and thickness of the brush. Mix

thoroughly before spraying.

ORNAMENTAL LAWNS AND TURF

(For 10 oz. Water Soluble Packets)

Cool Season Grasses - such as Bluegrass, Fescue and Rye:

Each 10 oz. water soluble packet will treat 10,000 to 15,000 square feet (prox. 1/4 to 1/3 acre). Add each Dissolve 10 oz. packet to 5 to 60 gallons of water per acre (1 to 4 gallons of water per 1000 square feet is normal).

Warm Season Grasses - St. Augustine, Bahia, common Bermuda, Centipede and Zoysia grasses: Each Dissolve 10 oz. water soluble packet will treat 15,000 to 22,000 square feet (prox. 1/3 to 1/2 acre). Add the Dissolve 10 oz. packet to 5 to 60 gallons of water per acre (1 to 4 gallons of water per 1000 square feet is normal). Do not spray St. Augustine or Centipede grasses if stressed from heat, drought, etc. Slight turf yellowing should disappear after about 1 week. Exercise care when applying during growth stages from dormancy to green-up and from green-up to dormancy.

Note: Some hybrid Bermuda grasses may be sensitive to this product. Contact your local extension service weed control specialist.

Bentgrass Turf: On closely mowed Bentgrass - other than golf course greens and tees, apply Riverdale Dissolve 10 oz. packets at the same rates as for warm season grasses, in May or mid-August through September when weeds are actively growing. Exercise care to avoid over-dosing bentgrass or injury may result. Slight turf yellowing should disappear after about 1 week.

Low Volume Applicator: When using a Low Volume Applicator (such as Lawn Doctor's "Turf Tamer") empty contents of 10 oz. water soluble packet into 1/2 gallon of water to treat 10,000 to 15,000 square feet.

Herbi™ Controlled Droplet Applicator: Reduced rates (use 1/2 of rate shown above) of Dissolve must be used when grass is stressed from heat, drought, etc. For cool season and common Bermuda grasses, empty two to three, 10 oz. water soluble packets of Dissolve into 5 pint Herbi™ bottle, then fill with 5 pints of water (or 4-1/2 pints of water and 1/2 pint of a surfactant) then agitate the solution. For listed warm season grasses empty 1 to 1-1/2 of 10 oz. water soluble packets of Dissolve into 5 pints of water (or 4-1/2 pints of water and 1/2 pint of surfactant) then agitate the solution. While walking at approximately 1 pace (3 feet) per second; spray entire contents over 33,000 square feet (3/4 of an acre). Do not overlap (double coverage) at edge of spray patterns. Herbi™ is a trademark of North American Micron.

SIMILAR NON-CROP AREAS

Roadsides (including aprons and guard rails) rights-of-way, and other SIMILAR NON-CROP AREAS: For the control of broadleaf weeds, mix each 10 oz. packet of Riverdale Dissolve in 10 to 75 gallons of water. This mixture will cover 10,000 sq. ft. (prox. 1/4 acre). Thoroughly saturate all weeds with spray mixture. Apply when plants come into full leaf (Spring) to the time plants begin to go dormant. Best results are obtained when weeds are young and actively growing. Do not cut weeds until herbicide has translocated throughout the plant causing root death. For small broadleaf weeds use the lower rate. Heavy, dense stands require the higher rate with high water volume.

For control of woody plants, apply to both stems and foliage from the time foliage is completely matured until the plants start to go dormant. All leaves, stems and suckers must be completely wet to the ground line for effective control. Regrowth may be anticipated on the more resistant species. Add eight to twelve, 10 oz. water soluble packets of Riverdale Dissolve to 100 gallons of water using 200 to 600 gallons of spray mixture per 43,500 sq. ft. (1 acre) depending upon the height and thickness of the brush. Mix thoroughly before spraying.

STORAGE AND DISPOSAL

STORAGE: Always store pesticides in a secured warehouse or storage building. This product should be stored in a cool, dry location. Do not store near seeds, fertilizers, insecticides or fungicides. Containers should be opened in well-ventilated area. Keep container tightly sealed when not in use. Do not stack cardboard cases more than two pallets high. Do not contaminate water, food or feed by storage or disposal.

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide spray mixtures or rinsate is a violation of Federal law and may contaminate groundwater. If container is damaged or if pesticide has spilled contain all spillage. Clean up all spilled material with broom. Place in a closed, labeled container for proper disposal. 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: Fiber Canister - Completely empty container into application equipment. Outer plastic bags, cartons, and shipping cases may be offered for recycling or disposed of in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

WARRANTY

Riverdale Chemical Company warrants that this herbicide conforms to the chemical description on its label. When used in accordance with label directions under normal conditions, this herbicide is reasonably fit for its intended purposes. Since timing, method of application, weather, plant and soil conditions, mixtures with other chemicals, and factors affecting the use of this product are beyond our control, no warranty is given concerning the use of this product contrary to label directions or under conditions which are abnormal or not reasonably foreseeable. The user assumes all risks of any such use.

(ERP 102393) (PR938&11 042194/RV 011296)

NOTE: For all water soluble packets the following statement will be used on the front panel - **"Individual Soluble Bags Are Not to Be Offered For Sale"**

For 2-3/4 oz. Water Soluble packets, the following statements will also be used at the top of the front panel - **"TO REMOVE PACKETS, CUT ALONG DOTTED LINE AND OPEN RESEALABLE CLOSURE."**

and **"PACKAGED SPECIFICALLY FOR SPOT TREATMENT USING BACKPACK SPRAYERS AND HANDCANS"**.

WATER SOLUBLE PACKET LABEL

(Front Panel of overwrap bags except 2-3/4 oz. size)

DISSOLVE®

A Water Soluble Herbicide

KEEP OUT OF REACH OF CHILDREN

DANGER

**See Product Label on Carton for Additional Precautionary Statements
And Statement of Practical Treatment**

EPA REG NO. 228-265

EPA EST. NO. 228-IL-1

RIVERDALE CHEMICAL (Logo)

ACTIVE INGREDIENTS:

Dimethylamine Salt of dichlorophenoxyacetic Acid*	40.00%
Dimethylamine Salt of 2-(2-Methyl-4-Chlorophenoxy)propionic Acid**	24.20%
Dimethylamine Salt of 2-(2,4-Dichlorophenoxy)propionic Acid***	5.00%
TOTAL	100.00%

Isomer Specific AOAC Method Equivalent to:

*2,4-Dichlorophenoxyacetic Acid	39.0%
**2-(2-Methyl-4-Chlorophenoxy)propionic Acid	20.0%
***2-(2,4-Dichlorophenoxy)propionic Acid	20.0%

Exposure to moisture prior to mixing may cause water soluble bag to rupture.

Individual soluble bags are not to be offered for sale.

Patent No. 3,266,533