

Riverdale**DISSOLVE®****A WATER SOLUBLE HERBICIDE**

A THREE-WAY POST-EMERGENT SELECTIVE HERBICIDE CONTAINING THE AMINES OF 2,4-D, MCPROP AND DICHLORPROP. FOR USE ON ORNAMENTAL TURF SUCH AS LAWNS, PARKS, CEMETERIES, AND GOLF COURSES (FAIRWAYS, APRONS, TEES, AND ROUGHS), ALSO ALONG HIGHWAYS, OTHER SIMILAR NON-CROP AREAS, AND SOD FARMS. KILLS DANDELIONS, CHICKWEEDS, PLANTAINS, OXALIS, SPURGE, AND MANY OTHER BROADLEAF WEEDS, SOME OF WHICH ARE LISTED ON THIS LABEL.

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

EPA REG. NO. 228-265

EPA EST. NO. 228-IL-1

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Patent No. 5,266,553

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 BELOW FOR ADDITIONAL PRECAUTIONARY STATEMENTS AND STATEMENT OF PRACTICAL TREATMENT**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 on clothing. Remove saturated clothing as soon as possible and shower. Avoid inhalation of spray mists. Harmful if inhaled.

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 instruction 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: Call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. If person is unconscious, do not give anything by mouth and do not induce vomiting.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

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, 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 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.

GENERAL INFORMATION

Riverdale Dissolve is a stable water soluble mixture of three herbicides. Each 2½ lb. water soluble packet will treat from 43,500 to 58,000 square feet (1 to 1½ acres) of cool season grasses or 58,000 to 87,000 square feet (1½ 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 Ornamental Turf such as Lawns, Parks, Cemeteries, and Golf Courses (Fairways, Aprons, Tees, and Roughs), also along Highways, other similar non-crop areas, and Sod Farms.

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

USE PRECAUTIONS

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 carpet-grass, 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.

WEEDS CONTROLLED BY DISSOLVE®

Alders, Artichoke, Aster, Austrian fieldcress, Beggartick, Bidden, 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 sowthistle, 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, 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, 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 broadleaf weeds.

ORNAMENTAL LAWNS AND TURF

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

Each 2 1/2 lb. water soluble packet will treat 1 to 1 1/2 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 1,000 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 1,000 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 sq. ft. (prox. 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 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: 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.

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