

71995-49

12/20/2007

1/12



U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (7505C)
1200 Pennsylvania Ave., N.W.
Washington, D.C. 20460

EPA Reg. Number:
71995-49

Date of Issuance:
DEC 20 2007

NOTICE OF PESTICIDE:

Registration
 Reregistration

(under FIFRA, as amended)

Term of Issuance:
Conditional

Name of Pesticide Product:
RD 1686 Herbicide

Name and Address of Registrant (include ZIP Code):

Monsanto Company, Lawn and Garden Products
1300 "I" Street, NW, Suite 450 East
Washington, DC 20005

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA section 3(c)(7)(A) and (B) provided that you:

1. Provided you submit the results of the one-year storage stability (830.6317) and corrosion characteristics (830.6320) studies once they are available.
2. Submit and/or cite all data required for registration/reregistration of your product when the Agency requires all registrants of similar products to submit such data.
3. Make the labeling changes listed below before you release the product for shipment. Many of these changes are required by the Diquat Dibromide RED, to appear on all products containing diquat dibromide for homeowner use.

Signature of Approving Official:

James A. Tompkins, Product Manager (25)
Herbicide Branch, Registration Division (7505P)

Date:

12-20-07

2/12

Page 2

EPA Reg. No. 71995-49

- a. Add the phrase "EPA Registration No. 71995-49"
 - b. Incorporate the statement "Wear long-sleeved shirt and long pants, socks, shoes, and gloves into your Precautionary Statements."
 - c. Add the heading "Entry Restrictions" and revise the current re-entry statement to read "Do not allow people or pets to touch treated plants until sprays have dried."
 - d. Add the heading "Application Restrictions" and the statement "Do not apply this product in a way that will contact any person or pet, either directly or through drift. Only persons applying this product may be in the area during application."
 - e. Add the following "User Safety Recommendations" to your label.

"Clothing and protective equipment exposed to this product should be worked in detergent and hot water. Such items should be kept and washed separately from other laundry.

Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

User should remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Users should remove PPE immediately after handling this product. Wash the outside of the gloves before removing. As soon as possible, wash thoroughly and change into clean clothing."
 - f. Statements from the Precautionary Statements that are similar to the User Safety Recommendations should be removed from the Precautionary Statements.
 - g. Add the statement "This pesticide is toxic to aquatic invertebrates" to your Environmental Hazards section.
3. Submit one (1) copy of your final printed label incorporating the above changes before you release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6 (e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Enclosure

[Editorial Notes: Bracketed text [] is for internal use or serves as a 'place holder' for graphics. Parenthetical text () denotes optional wording.]

[Refer to APPENDIX 1 for consolidated list of label claims.]

[Refer to APPENDIX 2 for packaging related claims.]

RD 1686 Herbicide

Alternate Brand Names:

Active Ingredients

Glyphosate, isopropylamine salt	18.00%
Imazapic, ammonium salt	1.60%
Diquat dibromide.....	0.73%
Other Ingredients	79.67%

KEEP OUT OF REACH OF CHILDREN

CAUTION

See back panel (booklet) for additional precautionary statements. (Read precautions and directions on back label.)

NET []

ACCEPTED
with COMMENTS
In EPA Letter Dated:
12/20/07
~~JAN - 2~~ 2008
Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under EPA Reg. No.
71995-49

4/12

Open Resealable Label for directions and precautions
 Press to Reseal

This product is intended for use in areas where control of vegetation is desired for up to 1 year. It is not for use on lawns, on or around fruits, vegetables, flowers, trees, shrubs or other plants, or over the root zones of desirable vegetation.

<p>Product Facts (Container) makes up to [] gallons and treats up to [] sq ft (approx. size of [] tennis court(s)) <i>[See Appendix 2 for values and calculations.]</i></p>	
<p>WHAT IT DOES</p>	<p><i>[Optional Illustration of grassy, broadleaf and woody weeds]</i> KILLS & PREVENTS ALL TYPES OF (TOUGH) WEEDS & GRASSES</p>
<p>HOW IT WORKS</p>	<p><i>[Insert brand name]</i> (Dual Action (Formula)) Works 2 ways:</p> <ol style="list-style-type: none"> 1. One ingredient enters plants through foliage and moves systemically to the roots, killing weeds by stopping the production of a substance found in plants. Weeds begin to yellow and wilt within hours (24 hours) with complete kill in 1 to 2 weeks. (Kills existing weeds & grasses, roots & all) 2. The other ingredient (Contains a second active ingredient that) creates (provides) an invisible barrier in the soil that prevents growth of (new, sprouting) weed(s) (seeds) (and grasses) (from sprouting, appearing, growing) for up to 1 year. <p><i>[Alternate text]</i> Prevents new weeds from growing for up to 1 year by creating an invisible barrier (in the soil). <i>[Optional illustrations]</i></p> <ol style="list-style-type: none"> 1. <i>Person applying product to patio</i> 2. <i>Cutaway weed seed/tap root underground</i> 3. <i>Cutaway of weed germination/growth inhibition</i>
<p>WHERE (HOW) TO USE</p>	<p>(Apply only where you want to kill existing weeds AND prevent future weed growth for up to 1 year, such as): <i>[Optional illustrations of where / how to use]:</i> Treated (insert color) areas stay weed free for up to 1 year. <i>[Alternate text]</i> Spray (apply <i>[Insert brand name]</i> to) both existing weeds and (weed-prone) areas where weeds have not yet appeared) (Treated (insert color) areas stay weed free for up to 1 year)</p> <ul style="list-style-type: none"> • Driveway and sidewalk cracks • Patios and paths • Along fences and curbs • Gravel areas <p>Note: In heavy clay soils, plant growth may be prevented for more than one year. In areas of heavy rainfall, applications every 6-8 months may be necessary. To avoid damage to desirable plants DO NOT apply over their root systems. For shrubs and trees DO NOT apply closer than twice the distance from the trunk to the drip line as roots may be within this area.</p>

	<p><i>[Alternate text]</i> To keep areas weed free for up to 1 year, spray the entire desired (weed-prone) area until thoroughly wet.</p> <p><i>[Alternate text]</i> Spray existing (emerged) weeds and the entire surrounding (weed-prone) area where weeds or grasses you want to kill normally appear until thoroughly wet. Spray only the areas you want keep free of weeds (for up to 1 year).</p>
WHEN TO REPLANT	<ul style="list-style-type: none"> All ornamental bedding plants (annuals and perennials), trees, shrubs, sod and seed may be planted 1 year after application.
HOW TO CLEAN SPRAYER	<p>To clean sprayer after use, rinse sprayer and all sprayer parts with water 3 times. Spray rinse water on bare soil or gravel. After cleaning sprayer may be used for other products.</p>
(HOW TO) REFILL <i>[Optional section]</i>	<p>Use <i>[Insert brand name for Reg. No. 71995-49 RD 1686 Herbicide]</i> to refill <i>[Insert brand name for Reg. No. 71995-New]</i> containers. Follow the instructions below:</p> <p>[24 fl oz container] To empty container add 1 oz (3 Tbs) of <i>[Insert brand name for Reg. No. 71995-49 RD 1686 Herbicide]</i> then fill with water very slowly to avoid foaming.</p> <p>[½ Gallon] To empty container add 3 fl oz of <i>[Insert brand name for Reg. No. 71995-49 RD 1686 Herbicide]</i> then fill with water very slowly to avoid foaming.</p> <p>[Gallon] To empty container add 6 oz of <i>[Insert brand name Reg. No. 71995-49 RD 1686 Herbicide]</i> then fill with water very slowly to avoid foaming.</p> <p>[1.33 Gallon PNS] To empty container add 8 fl oz of <i>[Insert brand name for Reg. No. 71995-49 RD 1686 Herbicide]</i> then fill with water very slowly to avoid foaming.</p> <p>[1.33 Gallon PNG] To empty container add 8 fl oz of <i>[Insert brand name for Reg. No. 71995-49 RD 1686 Herbicide]</i> then fill with water very slowly to avoid foaming.</p> <p>[6L] To empty container add 10 fl oz of <i>[Insert brand name for Reg. No. 71995-49 RD 1686 Herbicide]</i> then fill with water very slowly to avoid foaming.</p> <p>[2 Gallon] To empty container add 12 fl oz of <i>[Insert brand name for Reg. No. 71995-49 RD 1686 Herbicide]</i> then fill with water very slowly to avoid foaming.</p>

KILLS ALL TYPES OF WEEDS & GRASSES *[Optional Section]*

Bahiagrass	Bentgrass	Bermudagrass
Bindweed	Black Medic	Blue Toadflax
Bluegrass	Brassbuttons	Broadleaf Plantain
Bromegrass	Bur Clover	Canada Thistle
Chickweed	Common Plantain	Common Groundsel
Crabgrass	Creeping Bentgrass	Creeping Charlie
Creeping Beggarweed	Curly Dock	Dandelion
Diffuse Lovegrass	Dog Fennel	Evening Primrose
False Dandelion	Fennel	Fescue
Fiddleneck	Filaree	Florida Pusley
Garden Spurge	Henbit	Johnsongrass
Knotweed	Lambsquarters	Little Bitter Cress
London Rocket	Maiden Cane	Mallow
Mayweed	Mouseear Chickweed	Nimblewill
Oldenlandia	Orchardgrass	Oxalis
Pennsylvania Smartweed	Pennywort	Perennial Ryegrass
Primrose	Prostrate Spurge	Puncture Vine
Quackgrass	Ragweed	Sandspur
Shepherdspurse	Smooth Cat's Ear	Sowthistle
Spotted Spurge	St. Augustinegrass	Tall Fescue
Tansy Ragwort	Torpedograss	White Clover
Whitetop	Wild Morning Glory	Wild Barley
Yellow Nutgrass	Zoysia	

NOTE: Heavy lawn grass or well established difficult to control weeds, such as Bermudagrass, Nimblewill, Dandelion, or Canada Thistle may require a repeat application.

STORAGE AND DISPOSAL *[Optional trash can illustration]*

PESTICIDE STORAGE: Store in original container in a safe place away from direct sunlight.

DISPOSAL: Do not reuse this container. **If Empty:** Place in trash or offer for recycling if available. **If Partly Filled:** Call your local solid waste agency or 1-800-CLEANUP for disposal instructions. Never place unused product down any indoor or outdoor drain.

PRECAUTIONARY STATEMENTS *[optional illustration]*

HAZARDS TO HUMANS & DOMESTIC ANIMALS
CAUTION: Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco.

<p><i>[Optional, re-entry statement appears earlier in label]</i></p> <p><i>[Re-entry icon]</i></p>	<p>People and pets may enter treated area after spray has dried.</p>
---	--

FIRST AID <i>[Optional First Aid icon]</i>	
IF IN EYES	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after first 5 minutes, then continue rinsing eyes. • Call a poison control center (insert contact telephone #) or doctor for treatment advice.
IF ON SKIN OR CLOTHING	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center (insert contact telephone #) or doctor for treatment advice.
EMERGENCY MEDICAL INFORMATION	
<ul style="list-style-type: none"> • Have the product container or label with you when calling a poison control center or doctor, or going for treatment. • You may contact (insert contact telephone #) for emergency medical treatment information. • This product is identified as <i>[Insert brand name]</i>, EPA Reg. No. 71995-49 <i>[RD 1686]</i> 	
ENVIRONMENTAL HAZARDS	
Do not apply directly to any body of water. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.	
<i>[Optional statement]</i> This chemical demonstrates the properties and characteristics associated with chemicals detected in ground water. The use of this chemical in areas where soil is permeable, particularly where the water table is shallow, may result in ground-water contamination.	
NOTICE: Buyer assumes all responsibility for safety and use not in accordance with directions.	

[Optional text] Roundup Family of Products: Visit the Roundup website to learn more about the Roundup family of products for the best solution to your toughest weed problems

This product is protected by U.S. patent No. *[Insert relevant patent number(s)]*. Other patents pending. No license granted under any non-U.S. patent(s).

This is an end-use product. Monsanto does not intend and has not registered it for reformulation or repackaging.

[Insert relevant trademark statements]

© [] MONSANTO COMPANY
 Produced for
 Monsanto Company, Lawn & Garden Products
 PO Box 418
 Marysville, OH 43041-0418
 PPN (Form No.) _____
 EPA Reg. No. 71995-New
 EPA Est. 239-IA-3¹; 58996-MO-1^A
 Superscript is first letter of lot number
 Made in USA

9/12

APPENDIX 1 – Consolidated List of Label Claims

- Before [*weed graphics*] / After [*weed graphics*]
- Contains FastAct™ (Technology) (with Foam)
- Controls tough weeds longer
- Dead Weeds Guaranteed (or Your Money Back)
- Delivers maximum performance: Kills tough weeds and grasses to the root, prevents new weeds and grasses for up to 1 year, visible results in hours (24 hours), rain-proof protection in 30 minutes, great value – covers up to 400 sq ft.
- Dual (2-way) Action (kills and prevents)
- Dual (2-way) Action: Kills existing weeds (roots and all) and prevents new weeds from appearing for up to 1 year
- Easy (-ier) to use (convenient, handy, useful)
- Eliminate(s) weeds
- Even if it rains – Roundup won't lose its effectiveness
- Exclusive (Roundup) formula
- Experience the Roundup Advantage (peel back this panel for detail) (see details inside / underneath this booklet) (see details on back panel)
- Extended performance
- Extended weed control
- FastAct™ (Technology)
- Fast acting (formula)
- Fast-acting formula moves to the root faster (is absorbed fast)(more quickly)
- Fast results
- Great value – makes up to [] gallons and covers up to [] sq ft
- Guaranteed satisfaction
- Ideal for killing and preventing unwanted weeds and grasses throughout your yard. Use along fences, retaining walls; in cracks of walks, drives and patios.
- Keep yards (areas of your yard) weed free longer
- Keeps driveways, walkways, landscape borders, and other areas weed-free for up to 1 year (2, 3, 4, 1-2, 2-3, 2-4, 3-4 months) (seasonally) (all season long)
- (One application) Kills (existing) weeds (& grasses) (roots & all) and prevents (new) weed(s) (seeds) (from sprouting, appearing, growing) for up to 1 year
- Kills (the toughest weeds and grasses) to the root so weeds (they) don't come back
- Kills the weeds (& grasses) you see (roots & all) and prevents (new) weed(s) (seeds) (from sprouting, appearing) for up to 1 year
- Kills (to) the roots
- Kills existing tough weeds & grasses to the root
- Kills more weeds in more places.
- Kills over 100 weeds
- Kills weeds, roots and all
- Kills weeds dead
- Kills and prevents (for up to 1 year)
- NEW
- Next day results: Begins killing on contact, visible results in hours (less than 9, 12, 24 hours)
- No Root, No Weed, No Problem
- NOW

10/12

- One step protection
- Only Roundup's effectiveness (exclusive formula) won't be washed away by rain or watering 2 hours (30, 45, 60, 90 minutes; 1 hour; less than 1 hour; less than 60 minutes; less than 30 minutes) after treatment
- Quality that lasts
- Rainproof in 2 hours (30, 45, 60, 90 minutes; 1 hour; less than 1 hour; less than 60 minutes; less than 30 minutes) (for control that won't wash away)
- Ready-To-Use
- Roundup's exclusive (patented) (FastAct) formula (technology) kills to the root so weeds don't come back
- (See) (Visual) Results in hours (less than 9, 12, 24 hours) – Prevents for up to 1 year
- Season long weed control
- (See) (visual) results in 24 hours (1 day)
- (See) (visual) results in hours (less than 9, 12, 24 hours)
- Satisfaction guaranteed
- Starts working overnight
- Starts working in (24) hours
- Starts to kill overnight
- Starts to kill in hours (same day)
- Tougher than the toughest weeds
- Trusted protection
- 2 in 1 (kills and prevents)
- Dead in a day
- Spray today, dead tomorrow
- 30-50% faster (even when its cold) (even in the Spring) (even when it's dry) (even when it's cool)
- All-Season Formula (Delivers 12 hour results all year (even in cool and cloudy weather))
- All-temperature Roundup – Always 12 hour results!
- All-weather Formula (Results in (less than) 12 hours)
- Begins working in hours
- (Contains) (Now with) FastAct (II) Technology
- Patented FastAct (II) Technology
- Results in (less than) 12 (4,6,8,10) hours (even when it's cool) (even in the Spring)
- Results that show
- Same day results
- Speedy results
- The fast weed killer (starts working immediately)
- Weeds start dying in 1 day (less than 9, 12, 24 hours)
- Longer lasting formula
- One application kills weeds (to the root) and prevents (new) weeds for up to 1 year

[Promotional options]

- Save up to \$[x] on (your) next purchase
- Free weed guide inside
- Free [] with this purchase of Roundup Ready-To-Use (container size)
- FREE SAMPLE
- SAMPLE NOT FOR SALE
- Value sized
- X% free (more)

11/12

APPENDIX 2 – Packaging Related Claims

- NET xx fl oz (qt or gal) (xx mL or L)
- 6 fl oz (177 mL)
- 13 oz (384 mL)
- 16 fl oz (1 pt) (473 mL)
- 32 fl oz (1 qt) 946 mL)
- 53.7 fl oz (0.42 gal) (1.5 L)
- 64 fl oz (1/2 gal) (1.89 L)
- 128 fl oz (1 gal) (3.79 L)

[corner flap]

OPEN

Resealable Label for Directions & Precautions

PULL HERE TO OPEN LABEL

PEEL HERE

PEEL OPEN FOR USE DIRECTIONS AND FURTHER INFORMATION.

PRESS TO RESEAL

[Net contents] Makes up to 'X' gallons
 Mix with water to make 'X' gallons of spray solution
 Treats (covers) up to 'Y' sq ft (approximate size of 'Z' tennis court(s))
 Mix with water to treat (cover) up to 'Y' sq ft

$$[X = \text{net contents} \div 6]$$

$$[Y = X * 300]$$

$$[Z = Y \div 2808]$$

[Pint] Makes up to 2½ gallons
 Mix with water to make 2½ gallons of spray solution
 Covers up to 750 sq ft (approximate size of 1/4th tennis court)
 Mix with water to cover up to 750 sq ft

[Quart] Makes up to 5 gallons
 Mix with water to make 5 gallons of spray solution
 Covers up to 1,500 sq ft (approximate size of half a tennis court)
 Mix with water to cover up to 1,500 sq ft

[0.42 Gallon] Makes up to 9 gallons
 Mix with water to make 9 gallons of spray solution
 Covers up to 2,700 sq ft (approximate size of one (a) tennis court)
 Mix with water to cover up to 2,700 sq ft

[Half Gallon] Makes up to 10 gallons
 Mix with water to make 10 gallons of spray solution
 Covers up to 3,000 sq ft (approximate size of one (a) tennis court)
 Mix with water to cover up to 3,000 sq ft

12/12

[Gallon] Makes up to 21 gallons
Mix with water to make 21 gallons of spray solution
Covers up to 6,300 sq ft (approximate size of two tennis courts)
Mix with water to cover up to 6,300 sq ft

New! Larger size, covers up to ['Y'] sq ft

With (the convenient) measuring cup, mixing [Insert Brand Name] (controlling weeds around your home) has never been easier

With (the convenient) measuring cup, controlling weeds all around your home has never been this fast and easy