CH06/2005





U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs Registration Division (7505C) 401 "M" St., S.W. Washington, D.C. 20460 EPA Reg.

Date of Issuance:

71995-43

JUL - 6 2005

Term of Issuance:

Conditional

Name of Pesticide Product:

RD 1646 Herbicide

NOTICE OF PESTICIDE:

x Registration
Reregistration

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Monsanto Company, Lawn & 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 sec. 3(c)(7)(A) provided that you:

- 1. Submit and/or cite all data required for registration/ reregistration of your product when the Agency requires all registrants of similar products to submit data.
- 2. Make the following label changes listed below before you release the product for shipment:
 - a. Add the phrase, "EPA Req. No.71995-43".
 - b. Delete the User Safety Recommendations section. The statements contradict statements in the Hazards to Humans section.
 - c. Delete "Powered by Roundup" on page 11. This is a brand name for glyphosate. This product does not contain that active ingredient.

Signature of Approving Official:

Date

JUL - 6 2005

Joanne & Miller

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- d. Delete "[Optional text] in the ingredient statement footnotes. These sections are required to appear on the labeling for phenoxy herbicides. If there is not sufficient room on the front panel, the ingredient declaration can appear on the back panel.
- e. "2,4-D Acid", "Mecoprop-p Acid" and "Dicamba Acid" according to our computer records are not accepted common names for these ingredients. For clarity spell out the chemical name. Refer to the labeling for EPA Reg. No. 228-401.
- 3. Submit the results of the one year storage stability and corrosion characteristics study upon completion.
- 4. Submit one (1) copy of your final printed labeling before you release the product for shipment. Refer to the A-79 enclosure for a further description of final printed labeling.

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.

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

[Editorial Notes: Bracketed test [] is for internal use and 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.]	
[FRONT]		
	RD 1646	
	1. 346% 0.182%	ACCEPTED with COMMENTS
Месоргор-р *	0.359%	In EPA Letter Dated: JUL - 6 2005
	98.023%	Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide
Mecoprop-p Acid *	quivalent to:	registered under EPA Reg. No. 1995-43
[Optional text] This product equivalent, and 0.090% die	t contains 1.076% 2,4-D acid equivalent, 0.359 camba acid equivalent.	% Mecoprop-p* acid
XX-X-X [Insert fertilizer l	N-P-K ratio]	
KEEP OUT OF REACH CAUTION	OF CHILDREN	
See back panel (booklet) for directions on the back labe	or additional precautionary statements. (Read pel)	precautions and
	NET WEIGHT: lbs	
[BACK]	DD 4040 == 1.11	,
71995-new	RD 1646 EPA Master Label Submitted 10 February 2005	1

HOW IT WORKS [OPTIONAL TEXT]

[Insert brand name] is a 4-way selective (turf) herbicide that kills (unwanted) broadleaf weeds without harming the desirable turf while it nourishes your lawn. It is an effective blend of herbicides designed to kill broadleaf weeds such as dandelion, clover and plantains. (This product works on broadleaf weeds by increasing their growth rate. The new tissues block the nutrient/food transport system (phloem) which starve certain plant structures (roots) resulting in plant death.) In addition, [Insert brand name] formula contains a unique blend of (4) nitrogen sources that provide rapid as well as long term feeding of the turf roots and shoots that lasts up to 3 months. And it's guaranteed not to burn. The result is a greener, thicker lawn that is more resistant to drought, diseases and insects.

Product Facts			
Treats up to sq ft [See Appendix 2 for value]			
[Add other product t	benefit claims from Appendix 1]		
KILLS	[Optional Illustration(s)]		
WEEDS			
	Dandelion, clovers, plantains and over 250 other broadleaf weeds		
WHERE TO USE	FOR CONTROL OF BROADLEAF WEED ON THE FOLLOWING TYPES		
	OF (RESIDENTIAL) LAWNS		
	[Alternate text] FOR (RESIDENTIAL) LAWNS		
	Bahia grass		
	Bermuda grass		
	(Kentucky) Bluegrass		
	Centipede grass		
	Fescue		
	Ryegrass (perennial)		
	St. Augustine grass		
	Zoysia grass		
	IMPORTANT : Do not use on Carpetgrass, Dichondra, or on lawns where desirable clovers are present.		
[Re-entry icon]	Do not allow people (other than applicator) or pets on treatment area during application.		
	Do not allow people and pets to enter treated areas until dust has settled.		
2	Questions, Comments or Medical Information		
	Call [insert contact #] (Or visit [insert website address])		

DIRECTIONS FOR USE	
	law to use this product in a manner inconsistent with its labeling. e entire label before using this product.)
IMPORTANT USE PRECAUTIONS	 Do not use on Carpetgrass, Dichondra, or on lawns where desirable clovers are present. Do not allow this product to wind drift onto vegetables, flowers,

WHEN TO APPLY (FOR BEST RESULTS) (BEFORE YOU APPLY)	 ornamental plants, shrubs, trees or other desirable plants. Do not spread over the exposed roots of trees or ornamentals. Do not exceed recommended rates because turf injury may occur. Do not exceed specified rates for any area, be particularly careful within the dripline of trees and other ornamental species. Do not reseed treated areas sooner than 3 to 4 weeks after application. Do not apply to newly seeded or sodded lawn until after 3 mowings. [Optional text] [Insert brand name] controls a wide range of lawn weeds including; dandelion, chickweed, plantain, ground ivy, henbit, spurge and many other common weeds found in home lawns. In addition, [Insert brand name] contains slow release nitrogen that feeds the turf for up to 3 months.
	 For best results (follow these instructions) Apply when weeds are actively growing in the Spring or Fall A second application may be made approximately 30 days later if low moisture conditions prevail and weeds are not actively growing, or if lawn is heavily infested with weeds. Avoid mowing turf 1 to 2 days before and after application. Apply when turf is moist from dew, after a rain or sprinkler irrigation. Avoid unnecessary disturbances of treated area (like heavy foot traffic) or irrigation for 48 hours. A thorough watering may be made 2 days after application. Avoid application if rainfall is expected within 48 hours after treatment
USER SAFETY	Note: When applying to Southern turfgrasses (Centipede grass, St. Augustine grass) under conditions of inadequate moisture, high temperature and high humidity, over-application may cause minor transitory discoloration. It is recommended that during hot, dry conditions, application rates should be reduced 50% to avoid possible dehydration or browning of grasses. • Users should wash hands before eating, drinking, chewing gum,
RECOMMENDATIONS	 Users should wash hards before eating, drinking, chewing guin, using tobacco, or using the toilet. Users should remove clothing immediately if product gets inside, then wash thoroughly and put on clean clothing.
APPLICATION RESTRICTIONS	 Do not apply this product in a way that will contact any person or pet, either directly or through drift. Only the person applying this product may be in the area during application. The maximum number of broadcast applications per treatment site is 2 per year

HOW T	O APPLY
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The 16-pound bag (or 48 pound) bag should be applied evenly over 5,000 (or 15,000) square feet of turfgrass. It is recommended that drop spreaders and rotary spreaders be calibrated to ensure the accurate application of this product. The following settings are approximate for applying the contents of this package at a suggested rate of 3.2 pounds per 1,000 square feet. These settings are furnished only as a guide. Age, spreader condition, operating speed and unevenness of terrain can cause variation in applied rates of product. Settings are based on an average walking speed. Reduce setting for slower speed; increase setting for higher walking speed. Check your spreader over 250 square feet of turf and adjust to apply at the rate of 0.8 lb per 250 square feet. Fill the spreader on the driveway or sidewalk to minimize spillage on the lawn. Close the spreader openings when turning to change directions or when stopping. When using a rotary spreader, avoid spreading product into nearby landscape, flower or vegetable plantings.

> Suggested Spreader Settings: (One pass application)

[Optional rotary spreader graphics]

Rotary/Centrifugal Spreaders	Application Rate 3.2 lbs./1,000 sq. ft
Earthway 2050	14
Ortho Rotary	2
Precision Rotary	5
Republic EZ Grow Rotary	5 ¾
Scotts Edgeguard	5 ³ ⁄ ₄
Scotts Speedygreen 1000	5 3/4
Scotts Speedygreen 2000	5 ¾
Scotts Speedygreen 3000	5 ¾
Tru Temper Rotary	3 3/4
Vigoro 4000 Rotary	4 3/4

[Optional drop spreader graphics]

	Application Rate,
Drop Spreaders	3.2 lbs./1,000 sq. ft.
Ortho Drop	5
Precision Drop	6 1/4
Republic EZ Drop	6 ½
Scotts AccuGreen 1000	7 ½
Scotts AccuGreen 2000	7 ½
Scotts AccuGreen 3000	7 ½
Vigoro 4000 Drop	2

sq. ft.

nalication Bata

	Sweep all fertilizer materials from surfaces immediately after application. Do not wash into lawn, landscape bedding or any drain including sewer.
	[Required for product being sold in Kentucky when product does not deliver 1 lb of nitrogen per 1000 sq ft] A lawn will typically utilize 1 to 4 pounds of nitrogen per 1,000 square feet per growing season. When used as directed, this product will supplement your regular fertilizer program by providing [insert # lbs] pounds of nitrogen per 1,000 square feet and herbicide to control listed weeds. Please consult your local extension office for questions regarding a regular fertilizer program.
HOW TO CLEAN SPREADER	Wash out spreader with water after each use and allow to dry thoroughly before storing. Treat any exposed metal spreader part with oil to reduce corrosion.

WEEDS CONTROLED [Optional section]			
Alder	Dogfenel	Oxalis	Stinging nettle
Annual yellow sweet	Elderberry	Oxeye daisy	Stinkweed
clover			
Artichoke	English daisy	Parsley-piert	Stitchwort
Aster	Fall dandelion	Parsnip	Strawberryclover
Austrian fieldcress	False dandelion	Pearlwort	Sumac
Bedstraw	False flax	Pennycress	Sunflower
Beggartick	False sunflower	Pennywort	Sweet clover
Biden	Fiddleneck	Peppergrass	Tall nettle
Bindweed	Field bindweed	Pepperweed	Tall vervain
Bird vetch	Field pansy	Pigweed	Tansy mustard
Bitterweed	Flea bane (daisy)	Pineywoods bedstraw	Tansy ragwort
Bitter wintercress	Flixweed	Plains coreopsis	Tanweed
Black-eyed susan	Florida betony	Plantain	Tarweed
Black medic	Florida pusley	Poison hemlock	Thistle
Black mustard	Frenchweed	Poison ivy	Tick trefoil
Blackseed plantain	Galinsoga	Poison oak	Taodflax
Blessed thistle	Garlic mustard	Pokeweed	Trailing crownvetch
Blue lettuce	Goathead	Poorjoe	Tumble mustard
Blue vervain	Goatsbeard	Povertyweed	Tumble pigweed
Box elder	Goldenrod	Prairie	Tumbleweed
Bracted plantain	Ground ivy	Prickly lettuce	Velvetleaf
Brassbuttons	Gumweed	Prickly sida	Venice mallow
Bristly oxtongue	Hairy bittercress	Primrose	Veronica
Broadleaf dock	Hairy fleabane	Prostrate knotweed	Vervain
Broadleaf plantain	Hawkweed	Prostrate pigweed	Vetch
Broomweed	Healail	Prostrate spurge	Virginia buttonweed
Buckhorn	Heartleaf drymary	Prostrate vervain	Virginia creeper
Buckhorn plantain	Hedge bindweed	Puncture vine	Virginia pepperweed

Bulbous buttercup	Hedge mustard	Purslane	Wavyleaf bullthistle
Bull nettle	Hemp	Ragweed	Western clematis
Bull thistle	Henbit	Red clover	Western salsify
Burdock	Hoary cress	Redroot pigweed	White clover
Burning nettle	Hoary plantain	Red sorrel	White mustard
Bur ragweed	Hoary vervain	Redstern filaree	Wild mustard
Burweed	Honeysuckle	Rough cinquefoil	Wild aster
Buttercup	Hop clover	Rough fleabane	Wild buckwheat
Canada thistle	Horsenettle	Roundleafed marigold	Wild carrot
Carolina geranium	Horsetail	Rush	Wild four-o'-clock
Carpetweed	Indiana mallow	Russian pigweed	Wild garlic
Catchweed bedstraw	Ironweed	Russian thistle	Wild geranium
Catsear	Jewelweed	St. johnswort	Wild lettuce
Catnip	Jimsonweed	Scarlet pimpernel	Wild marigold
Chickweed	Kochia	Scotch thistle	Wild onion
Chicory	Knawel	Sheep sorrel	Wild parsnip
Cinquefoil	Knotweed	Shepherdspurse	Wild radish
Clover	Lambsquarter	Slender plantain	Wild rape
Cockle	Lespedeza	Smallflower galinsoga	Wild strawberry
Cocklebur	Locoweed	Smartweed	Wild sweet potato
Coffeebean	Lupine	Smooth dock	Wild vetch
Coffeeweed	Mallow	Smooth pigweed	Willow
Common chickweed	Marshelder	Sneezeweed	Witchweed
Common mullein	Matchweed	Southern wild rose	Wooly morninglory
Common sowthistle	Mexicanweed	Sowthistle	Woodsorrel
Corn chamomile	Milk vetch	Spanishneedle	Wooly croton
Creeping jenny	Milkweed bloodflower	Spatterdock	Wooly plantain
Crimson clover	Mugwort	Speedwell	Wormseed
Croton	Morninglory	Spiny	Yarrow
Cudweed	Mousear chickweed	Spiny amaranth	Yellow rocket
Curly dock	Musk thistle	Spiny cocklebur	Yellowflower
		1	pepperweed
Curly indigo	Mustard	Spotted catsear	Other broadleaf weeds
Dandelion	Narrowleaf plantain	Spotted knapweed	
Dead nettle	Narrowleaf vetch	Spotted spurge	<u></u>
Dock	Netle	Spurge	
Dogbane	Orange hawkweed	Spurweed	<u> </u>

STORAGE AND DISPOSAL [Optional trash can illustration]

PESTICIDE STORAGE: Store in original container in a dry place inaccessible to children and domestic animals. Keep product away from direct sunlight.

DISPOSAL: Do not reuse this container. **If Empty**: Place in trash or offer for recycling if available. **If Party 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

HAZARDS TO HUMANS & DOMESTIC ANIMALS

CAUTION: Causes moderate eye irritation. Avoid 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. Wash hands and exposed skin promptly after use with soap and water.

[Optional: re-entry statement appears earlier in labell [Re-entry icon] People and pets may enter treated areas after dust has settled.

FIRST AID

If in eyes

- 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 eye.
- Call a poison control center (insert contact #) or doctor for additional treatment advice.

Emergency Medical Information

- 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 [Insert brand name], EPA Reg. No. 71995-new

ENVIRONMENTAL HAZARDS

Drift or runoff may adversely affect nontarget plants. Do not apply directly to water. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

Total Nitrogen (N)X%

NOTICE: Buyer assumes all responsibility for safety and use not in accordance with directions.

Guaranteed Analysis:

X% Ammoniacal Nitrogen	
X% Urea Nitrogen*	
X% Other Water Soluble Nitrogen*	
X% Water Insoluble Nitrogen*	
Available Phosphate (P ₂ O ₅)	X%
Soluble Potash (K ₂ O)	
Sulfur(S)	
X% Free Sulfur (S)	
Chlorine (CI) Maximum	X%
[Chlorine declaration is optional except where required to	by State Fertilizer Regu
Derived from: polymer-coated sulfur-coated urea, urea, diami	

ations] ssium sulfate, ammonium sulfate, methlyenediurea and dimethylenetriurea *Contains X% Slowly Available Nitrogen from [List sources]

Primary plant food sources: [List sources]

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

© ___MONSANTO COMPANY

Manufactured for
Monsanto Company
Lawn & Garden Products
800 N. Lindbergh Blvd.
St. Louis, MO 63167
EPA Reg. No. 71995-new
Form No.
EPA Est.
Superscript is first letter of lot number
Made in USA

APPENDIX 1 - Consolidated List of Label Claims

- (Contains) (Now with) FastAct (II) Technology
- (Contains) FastAct™ (technology)
- [Insert brand name] Kills the weed you see and the root others leave behind
- After [graphic of dead weed]
- · Before [graphic of live weed]
- Begins working in hours, New Formula
- Begins working on contact
- Completely kills even the toughest broadleaf weeds
- Contains 2,4-D (Mecoprop-p) (Dicamba)
- Contains AMS for rapid, dense green up
- Contains Fast Act Technology for speed & efficacy
- Contains Fast Act Technology with visible results in 24 hours
- Controls existing weeds, is not a pre-emergent
- Dead Weeds Guaranteed (or Your Money Back)
- Dual potassium source promotes disease, drought and traffic resistant turf
- Easy (-ier,)To Use (convenient, handy, useful, well-situated)
- Economical
- Ester formula for speed and efficacy
- Fast acting formula
- Fast and complete
- Fast and total
- Fast results
- Fast Uptake
- Fast-acting formula absorbs to root more quickly
- Feeds up to 3 months
- · For a beautiful weed free lawn
- For a beautiful weed free lawn
- For Control of Tough Weeds
- · Gets to the Root in hours
- Got Tough Broadleaf Weeds in your Lawn Get [Insert brand name]
- Guaranteed (we guarantee it)
- Guaranteed [results]
- Guaranteed effective: Kills over 250 types of weeds roots and all, with [Insert brand name]
- Guaranteed results (with one application)
- Ideal for killing unwanted broadleaf weeds throughout your yard.
- Improved (faster formula)
- · Improved extra strength formula
- Improved for tough weed control
- Improved formula, completely kills even the toughest weeds with just one application
- Increased strength for Intense Weeds



_	
•	Industry leading performance
•	Kill Tough Weeds Quickly
•	Kills (the toughest weeds) the root so weeds (they) don't come back
•	Kills (to) the root
•	Kills 250+ weeds
•	Kills 250+ weeds
•	Kills dandelion, clover, chickweed and others
•	Kills dandelion, clover, chickweed and others
•	Kills even tough weeds
•	Kills lawn weeds, promotes Thick Green Turf
•	Kills the root so weeds don't come back
•	Kills the toughest weeds (always- guaranteed)
•	Kills the weed you see and the root you don't
•	Kills to the Root (in 24 hours)
•	Kills tough broadleaf weeds
•	Kills tough broadleaf weeds
•	Kills tough weeds – fast
•	Kills Tough Weeds (to the Root) (Fast)
•	Kills tough weeds in 2 to 3 weeks
•	Kills Ugly, Annoying (Undesirable)(Unwanted) Weeds in your lawn
•	Kills weeds - roots and all
•	Kills weeds – not lawns
•	Kills weeds ((clear) down to the root) in (24 hours) (days) (2-4 weeks) (roots and all)
•	Kills weeds clear down to the root, 1st time, every time so weeds don't come back -
<u></u>	guaranteed
•	Kills weeds dead
•	Kills weeds down to the roots
•	Kills weeds not lawns
•	Kills weeds, roots and all
•	New (formula)
•	New 4-way control with 3-month greening
•	New 4-way feeding that greens in 3 days and feeds for 3 months
•	New 4-way proprietary ester formulation
<u> • </u>	Next day (this weekend) results: Begins killing on contact, visible results in 24 hours
•	No Root, No Weed, No Problem for your lawn
•	No waiting, weeds wilt in days
•	Now
•	Once it enters the plant, it won't wash off
•	One application kills over 250 broadleaf weeds, roots and all (maximum effectiveness)
•	Outdoor use only [optional graphic]
•	Overnight speed
•	Patented FastAct (II) Technology
•	Patented formula with 4-way control

Pow	vered by Roundup
• Prov	vides maximum control: Kills weeds to the root so they don't ever come back
	ck and easy to use
• Qui	ck kill formula
• Qui	ck uptake, eliminates weather concerns
• Quio	ck visible results
• Quic	ck-action formula lets you see results
	dy-To-Spread (broadleaf weed killer) (tough weed killer)
• Res	ults that show
Sati	sfaction guaranteed or we will gladly refund purchase price
	sfaction guaranteed or your money back with proof of purchase
	results in 24 hours (overnight)
Spe	edy results
Star	ts to kill [in] the same day
Star	ts to kill in hours
• Star	ts to kill in/within the same day
• Star	ts to kill overnight
• Star	ts working overnight (in hours) (fast)
	ng (-er) formula
 Superior 	erior dandelion & clover control
 Syst 	emic weed killer
• The	easy way to kill tough (lawn) weeds
• The	fast weed killer (starts working immediately)
• Tou	gher formula (kills to the roots)
	its up to XX sq ft
 Use 	[Insert brand name] to control weeds in your lawn
Visit	ole results in 24 hours (days)
	ds start dying in 1 day
	't harm lawns
	ks first time, every time (guaranteed)
	ks in 24 hours (days)
	ks on [insert weed list]
	ks overnight
 Worl 	ks to the root in hours

[Promotional options]

- Save up to \$[x] on (your) next purchase
 Free weed guide inside
 Free [] with this purchase

- FREE REFILL
- FREE SAMPLE

SAMPLE NOT FOR SALE



APPENDIX 2 - Packaging Related Claims

NET 16 lbs

48 lb

PULL HERE TO OPEN LABEL
PEEL HERE
PEEL OPEN FOR USE DIRECTIONS AND FURTHER INFORMATION
PRESS TO RESEAL

16 lbs treats 5000 sq ft 48 lbs treats 15,000 sq ft