

US ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF PESTICIDES PROGRAMS
REGISTRATION DIVISION (75-767)
WASHINGTON, DC 20460

PM 25 239-2653
EPA REGISTRATION NO.
239-2653

P. 14/10
DATE OF ISSUANCE
OCT 17 1996

NOTICE OF PESTICIDE: REGISTRATION
 REREGISTRATION
(Under the Federal Insecticide, Fungicide,
and Rodenticide Act, as amended)

TERM OF ISSUANCE
NAME OF PESTICIDE PRODUCT
Roundup Rainfast Concentrate
Weed & Grass Killer

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

Ms. Katherine A. Buteau
The Solaris Group of Monsanto Company
P.O. Box 5006
San Ramon, CA 94583-0906

NOTE: Changes in labeling formula 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 U.S. 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.

A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.

Registration is in no way to be construed as an indorsement or approval of this product by this 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 the registration/reregistration of your product under FIFRA sec. 3(c)(5) and sec. 4 when the Agency requires all registrants of similar products to submit such data.
2. Add the phrase, "EPA Registration No. 239-2653" to the label before you release the product for shipment.
3. Submit three (3) copies of your final printed labeling 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 sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of labeling is enclosed for your records.

ATTACHMENT IS APPLICABLE

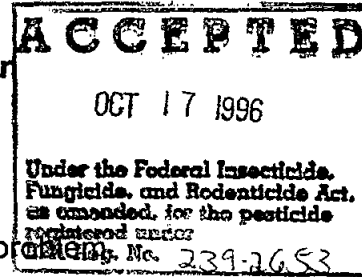
SIGNATURE OF APPROVING OFFICIAL

Vickie K. Walters for Robert J. Taylor

DATE

OCT 17 1996

FRONT PANEL



Roundup® Rainfast Concentrate Weed & Grass Killer

NEW! MEASURING CAP AND POUR SPOUT INCLUDED
 NEW! LARGER SIZE Covers xx sq ft
 Now easier to measure and pour. Child Resistant Cap
 Kills the root so weeds don't come back. No root. No weed. No problem.
 Built-in measuring cap, No odor, Water - based formula
 Mix with water to make up to 10 / 21 gallons of spray solution [varies with qt / gal container size]
 Covers up to 300 sq ft per gallon of spray, 75 sq ft per qt, 55 sq ft per 24 oz
 Does not have soil activity, Controls existing weeds, is not a preemergent
 Kills unwanted weeds and grasses, roots and all, kills to the root, kills weeds roots and all
 Use in / Apply with a BIG SHOT™ Multi-Purpose Sprayer or other tank sprayer, ORTHO® DIAL 'n SPRAY®, ORTHO SPRAY-ETTE® or other ORTHO hose-end sprayers
 Use to prepare sites for large plantings, for planting flower beds, for planting fruit trees, ornamentals, vegetables, garden sites and to renovate lawns

Can be used for habitat restoration, controlling exotic vegetation, and for site preparation of wildlife food plots.

-) Apply Roundup, rainfast starts working immediately.
-) Guaranteed same effective results even if it rains within hours
-) New formulation enters the plant within one hour, won't wash off
- Quick uptake, eliminates weather concerns, Rainfast in hours - enters the plant on contact
- Won't wash off New and Improved Formulation -Now Rainfast - Fast Uptake
- Works first time, every time Kills the weed you see and the root you don't
- Approved for most/ many lawn and garden uses
- Kills over 100 weeds
- Can be used around small fruits and vegetables
- Kills / spray weeds in flower beds and around fences, trees, shrubs, driveways, walkways and shrubs, in and around fences, patios, paths, sidewalk cracks, walkways,

Economical- mix 6 to 12 tablespoons (3 - 6 oz) per gallon, Concentrated For Extra Value
Satisfaction guaranteed or your money back with proof of purchase

-) Use to refill Roundup Ready-To-Use
-) For General Weed Control - Kills Weeds And Grasses In 2 To 4 Weeks - Roots & All
- New, Improved Formula Completely kills even the toughest weeds and grasses
- Multipurpose Grass & Broadleaf Weed Control
- Visible Results In 2 to 4 Days Can Reseed or Sod Lawns 7 Days After Treatment
- Lawns and gardens can be reseeded or planted soon after treatment.
- Ornamental gardens can be reseeded or planted 1 day after treatment

KEEP OUT OF REACH OF CHILDREN

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

Active Ingredient

Glyphosate, N-(phosphonomethyl)glycine in the form of its isopropylamine salt	18.0%
Inert Ingredients	82.0%

3/10

Net 32 fl oz (1 qt) 946mL, 53.7 fl oz (.42gal) 1.5 L or 128 fl oz (1 gal) 3.7 L
[Fix-a-Form label][Back Cover]

Roundup® Rainfast Concentrate Weed & Grass Killer1 PULL HERE TO OPEN LABEL

Roundup® Rainfast Concentrate once it enters the plant, it won't wash off, killing almost all annual and perennial weeds, grasses and other unwanted plants. Mix Roundup with water and use on driveways and walkways, or around fences, trees, flower beds, shrubs, gardens, fruit trees and other areas in your yard. Roundup can also be used for large jobs such as lawn renovation, vegetable and flower garden preparation. Roundup kills weeds by stopping the production of a substance found only in plants. Any Roundup not absorbed by the plant breaks down into natural materials. Roundup will not move in or on the soil to untreated plants. Visible effects are gradual wilting and yellowing advancing to complete browning and root destruction.

Used by American Zoo and Aquarium Association member zoos to effectively control weeds.

Recommended to zoos everywhere by the American Zoo and Aquarium Association for the control of weeds.

Peel open for use directions and further information

PRESS HERE TO RESEAL

CAUTION: Causes eye irritation. Avoid contact with eyes or clothing.
SEE ADDITIONAL PRECAUTIONARY STATEMENTS AND DIRECTIONS INSIDE BOOKLET.

- ☛ **Medical Information call 1-800-454-2333**
- Product Information call 1-800-225-2883**

This product is protected by U.S. Patent No. 4,405,531. Other patents pending. No license granted under any non-U.S. patent(s).

REFORMULATION OR REPACKAGING FOR SALE IS PROHIBITED

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The SOLARIS Group of Monsanto Company
P.O. Box 5008
San Ramon CA 94583-0808
Form 7-984-01 / Product
EPA Reg. No. 239-~~207~~ *EALG*
EPA Est. 239-IA-3^l, 524-LA-1^l, 56100-LA-1^G
Superscript is first letter of lot number
Made in USA

Roundup® Rainfast Concentrate once it enters the plant, it won't wash off, killing almost all annual and perennial weeds, grasses and other unwanted plants. Mix Roundup with water and use on driveways and walkways, or around fences, trees, flower beds, shrubs, gardens, fruit trees and other areas in your yard. Roundup can also be used for large jobs such as lawn renovation, vegetable and flower garden preparation. Roundup kills weeds by stopping the production of a substance found only in plants. Any Roundup not absorbed by the plant breaks down into natural materials. Roundup will not move in or on the soil to untreated plants. Visual effects are gradual wilting and yellowing advancing to complete browning and root destruction.

Used by American Zoo and Aquarium Association member zoos to effectively control weeds.

Recommended to zoos everywhere by the American Zoo and Aquarium Association for the control of weeds.

CONTROLS WEEDS AND GRASSES INCLUDING:

General Weed Control (Annuals)

- | | | | |
|---------------------|---------------------|------------------------|------------------|
| Annual Ryegrass | Dog Fennel | London Rocket | Shepherdspurse |
| Annual Bluegrass | Evening Primrose | Maiden Cane | Smooth Cat's Ear |
| Barnyardgrass | False Dandelion | Mallow | Smooth Pigweed |
| Beggarweed | Fiddleneck | Mayweed | Sowthistle |
| Black Medic | Fall Panicum | Mouseear Chickweed | Spotted Spurge |
| Blue Toadflax | Field Pennycress | Oxalis | Tansy Ragwort |
| Brassbuttons | Field Sandbur | Pennsylvania Smartweed | Tansy Mustard |
| Blue Mustard | Filaree | Prickly Lettuce | Teaweed |
| Buttercup | Florida Pusley | Prostrate Spurge | Texas Panicum |
| Bromegrass | Foxtail | Puncture Vine | Tumble Mustard |
| Bur Clover | Goosegrass | Redroot Pigweed | Sprangletop |
| Chickweed | Garden Spurge | Sandspur | Witchgrass |
| Common Groundsel | Horseweed/marestail | | Wild Mustard |
| Common Plantain | Henbit | | |
| Crabgrass | Knotweed | | |
| Creeping Beggarweed | Lambsquarters | | |
| Diffuse Lovegrass | Little Bitter Cress | | |

Alder	Ceanothus	Kudzu	Quackgrass
Artichoke Thistle	Cogongrass	Multiflora Rose	Ragweed
Bahiagrass	Coyote Brush	Nimblewill	Raspberry
Bentgrass	Elderberry	Nutsedge	Red Clover
Bermudagrass	False Dandelion	Oak species	Smooth Bromegrass
Blackberries	Fescue species	Oldenlandia	St. Augustinegrass
Broadleaf Plantain	Field Bindweed (Wild	Orchardgrass	Sumac
Canada Thistle	Morningglory)	Oxalis	Tall Fescue
Cherry species	Honeysuckle	Pennywort	Timothy
Common Ragweed	Horseradish	Perennial Ryegrass	Torpedograss
Creeping Bentgrass	Kikuyugrass	Poison Hemlock	Trumpet creeper
Creeping Charlie	Milkweed	Quaking Aspen	Vaseygrass
Curly dock	Knapweed	Pampasgrass	Virginia Creeper
Dandelion	Guineagrass	Wild Sweet Potato	White Clover
Dallisgrass	Horsenettle	Wild Oats	Whitetop
Dewberry	Iceplant	Virginia Creeper	Wild Barley
Common Mullein	Lantana	Poison Oak	Willow
Cattail	Nightshade, silverleaf	Poison Ivy	Yellow Starthistle
Cocklebur	Johnsongrass	Primrose	Yellow Nutgrass
	Kentucky Bluegrass	Purple Nutsedge	Zoysia

☞ For additional weeds controlled by this product call 1-800-225-2883.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. **READ ENTIRE LABEL. USE ONLY ACCORDING TO LABEL DIRECTIONS OBSERVING ALL PRECAUTIONS.**

WHEN TO USE

Use anytime weeds and grasses are actively growing. Most treated weeds usually show initial symptoms within 2 to 4 days and complete kill in 1 to 2 weeks. Roundup works best in warm sunny weather with daytime temperature above 60° F. For best results, apply when weeds are small and before seedheads have formed. Reapply, if it rains within 1 to 2 hours / soon after application. If hard-to-control weeds are not killed within 4 weeks, reapply.

WHERE TO USE

For General Weed Control: Use along fences, paths, patios, sidewalks and driveways, around trees, shrubs, and ornamental plantings and flower beds, around buildings, and in brick and gravel walkways. Use to trim and edge landscape areas. Do **NOT** use for spot weed control in lawns since Roundup kills all green plants, including lawn grass.

For Spot Spraying: Use on actively growing weeds in and around flower beds, ornamental trees, fruit and nut trees, grapevines, shrubs, fences, driveways and walkways. Spray when air is calm. Make sure Roundup does not contact the leaves, green stems, or exposed roots of plants you don't want to kill. If necessary, use cardboard or plastic to shield plants. Roundup will not move in or on the soil to untreated plants. If Roundup is used to control weeds around fruit or nut trees or grapevines, allow 21 days before eating the fruit or nuts.

For Landscaping: Use to prepare areas for planting of ornamentals, trees, shrubs, desert landscapes, rock gardens, flower beds or similar plantings. Treated areas can be replanted 1 day after treatment. 6/10

For Wildlife Areas: Use to prepare areas for planting wildlife food. Exotic or undesirable plants can be controlled to allow for planting or recovery of native plant species. Spot treatments can be made to selectively remove unwanted plants. Be careful to keep spray off desirable plants.

For Lawn Renovation:

- Use Roundup to kill existing weeds and grasses including the old lawn.
- For best results, apply in Spring or Fall, when daytime temperatures are at least 60° F.
- Under dry conditions, water lawn every other day for a week before using Roundup
- Do not mow for 7 days before or after treatment.
- After 7 days, prepare the soil for planting by raking or rototilling the lawn. Rake up and remove loosened thatch or debris.
- Mix in starter fertilizer and other amendments, if needed. Level the soil.
- Apply seed according to directions on seed package, or install sod. Grass seed must have a good contact with soil to germinate and grow.
- Keep area moist for 2 weeks, to establish new lawn, then water as needed.

For Brush Control: Use when brush is green and growing. If plants are taller than 5 feet, cut back and spray regrowth. Brush sprayed in the fall may not be fully controlled until the following season. Hard-to-control species such as Blackberry, Kudzu, or Poison Oak may require a second application.

STUMP TREATMENT

Stumps can be treated to prevent regrowth. For best results, treat when the vegetation is actively growing and within 5 minutes of being cut down.

- Cut the stump close to the soil surface.
- Drive 4-5 nail holes into the stump.
- Flood the stump with undiluted product.

This treatment will control or suppress many types of woody brush and trees, such as alder, bluegum eucalyptus, madrone, oak, giant reed, saltcedar, sweetgum, and tan oak.

HOW TO USE

7/10

IMPORTANT: Roundup is an all-purpose weed and grass killer which will kill almost all plants contacted. If necessary, use cardboard or plastic to shield desirable plants. If plants are accidentally sprayed, rinse off immediately with water. Spray when air is calm. Spray to evenly wet the weed.

To apply this product use

- Plastic, aluminum or stainless steel tank sprayer
- ORTHO DIAL' n SPRAY®
- ORTHO SPRAY-ETTE®
- Other hose-end sprayer recommended for weed killers
- Hand-trigger sprayer

Do not use or store solutions of this product in galvanized steel or unlined steel sprayers, or apply through any type of irrigation system or with a sprinkling can.

Rinse sprayer and flush all sprayer components with water 3 times after use. Spray rinse water on bare soil or gravel. After very through cleaning, sprayer may be used to apply other products.

Measuring Cap: To open, squeeze cap sides at the points indicated while unscrewing. The measuring cap has four levels indicated inside. The following table and the measuring cap should be used to determine the amount of Roundup you need. Close cap tightly after use. No need to rinse.

- Level 1 = 1 teaspoon (tsp)
- Level 2 = 1 Tablespoon (Tbs) = 3 tsp
- Level 3 = 1 fl oz (2 Tbs)
- Level 4 = 2 fl oz (4 Tbs)

APPLICATOR	MIXING INSTRUCTIONS General Weed Control Annuals	MIXING INSTRUCTIONS Tough Weed Control Perennials or Brush Lawn Renovation	AREA TO TREAT
Tank Sprayer	Fill cap to Level 3 three times (6 Tbs). Add to 1 gallon of water.	Fill cap to Level 4 three times (12 Tbs). Add to 1 gallon of water.	300 sq ft (30 ft x 10 ft)
ORTHO DIAL 'n SPRAY® Hose- End sprayer	Fill cap to Level 3 three times (6 Tbs) and add to sprayer jar. DO NOT ADD WATER. Set dial to 3 oz and spray.	Fill cap to Level 4 three times (12 Tbs) and add to sprayer jar. DO NOT ADD WATER. Set dial to 5 oz and spray.	300 sq ft
ORTHO SPRAY-ETTE®	Fill cap to Level 4 six times (12 oz) and add to sprayer jar. Fill to the 4 gallon mark and spray.	Fill cap to Level 4 ten times (20 oz) and add to sprayer jar. Fill to the 4 gal mark and spray.	1200 sq ft (30 ft x 40 ft)
Hand trigger sprayers	Fill cap to Level 1 four times (4 tsp). Add to 24 oz of water.	Fill cap to Level 2 three time (3 Tbs). Add to 24 oz of water.	Use for spot treatments or single weeds

[Alternative directions for use when measuring cap packaging is not used]

Use the following table to determine the amount of Roundup you need. Close cap tightly after use. No need to rinse.

- 1 teaspoon (tsp)
- 1 Tablespoon (Tbs) = 3 tsp
- 1 fl oz (2 Tbs)
- 2 fl oz (4 Tbs)

APPLICATOR	MIXING INSTRUCTIONS General Weed Control Annuals	MIXING INSTRUCTIONS Tough Weed Control Perennials or Brush Lawn Renovation	AREA TO TREAT
Tank Sprayer	Use 3 oz (6 Tbs) Roundup in 1 gal of water.	Use 6oz (12 Tbs) Roundup in 1 gal of water.	300 sq ft (30 ft x 10 ft)
ORTHO DIAL 'n SPRAY® Hose- End sprayer	Add 3 oz (6 Tbs) Roundup to sprayer jar. DO NOT ADD WATER. Set dial to 3 oz and spray.	Add 6 oz (12 Tbs) Roundup to sprayer jar. DO NOT ADD WATER. Set dial to 5 oz and spray.	300 sq ft
ORTHO SPRAY-ETTE®	Add 12 oz Roundup to sprayer jar. Fill to the 4 gal mark and spray.	Add 20 oz Roundup to sprayer jar. Fill to the 4 gal mark and spray.	1200 sq ft (30 ft x 40 ft)
Hand trigger sprayers	Use 4 tsp in 24 oz of water.	Use 3 Tbs in 24 oz of water.	Use for spot treatments or single weeds

This product can be used to refill Roundup Ready-To-Use Weed & Grass Killer.

RE-SEEDING AND REPLANTING IN SPRAYED AREAS

9/10

Ornamentals and Flowers - May be reseeded or replanted the next day.

Vegetables - To plant listed vegetables, wait 3 days after spraying, before seeding or transplanting. For tomato transplants or unlisted vegetables, wait 30 days after spraying.

beans	Crenshaw melon	mango melon	rhubarb
beet greens	cucumber	melons	rutabaga
broccoli	eggplant	muskmelon	spinach
Brussels sprouts	endive	mustard greens	summer squash
cabbage	garlic	okra	sweet potato
cantaloupe	gourds	onion	tomatillo
carrot	honeydew melon	rape greens	tomato*
cauliflower	honey ball melon	parsley	turnip
casaba melon	horseradish	parsnips	watercress
celery	Jerusalem artichoke	peas	watermelon
chard (Swiss)	kale	pepper	winter squash
chicory	kohlrabi	persian melon	yams
collards	leek	potato	
corn	lentils	pumpkin	
	lettuce	radish	

***Note:** Tomatoes planted from seed only. Wait 30 days for rooted transplants.

Small Fruits and Berries: The following listed crops may be planted by seed, rooted cutting, or transplant 7 days after spraying Roundup. For unlisted small fruit and berries, wait 30 days after spraying.

Blackberry, black raspberry, blueberry, boysenberry, currant, dewberry, elderberry, gooseberry, huckleberry, loganberry, olallieberry, and red raspberry.

Fruit and Nut Trees, Caneberries or Grapevines: If Roundup is used to control weeds around fruit or nut trees, caneberries or grapevines, allow 21 days before eating the fruits or nuts.

For tropical fruits or special ornamental plants call for specific information 1-800-225-2883

10/10

STORAGE AND DISPOSAL

STORAGE: Store this product only in its original container and in a secured storage area. Protect container from freezing. **DISPOSAL:** Securely wrap partially filled or empty container in several layers of newspaper and discard in trash. Do not reuse container. **SPILL OR LEAK:** In case of spill or leak, soak up spill with paper towels and discard in trash.

PRECAUTIONARY STATEMENTS Hazards to Humans & Domestic Animals

CAUTION: Causes eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling.

[Child/pet icon] People and pets may enter treated areas after spray has dried.

FIRST AID: IF IN EYES: Flush eyes with a plenty of water. Get medical attention if irritation persists.

Note to Physicians: Emergency Information call 1-800-454-2333

Environmental Hazards

Do not apply directly to water. Do not contaminate water when disposing of equipment washwaters.

NOTICE: BUYER ASSUMES ALL RESPONSIBILITY FOR SAFETY AND USE NOT IN ACCORDANCE WITH DIRECTIONS.

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☐ **Medical Information call 1-800-454-2333**
Product Information call 1-800-225-2883

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The SOLARIS Group of Monsanto Company

P.O. Box 5008

San Ramon CA 94583-0808

Form 7-983-01 / Product

EPA Reg. No. 239-~~NEW~~ *FALG*

EPA Est. 239-IA-3¹, 524-LA-1⁴, 56100-LA-1⁶

Superscript is first letter of lot number

Made in USA