

PM 25 239-2653

10/10

Please read instructions on reverse before completing form.

Form Approved, OMB No. 2070-0060. Approval expires 05-31-98



United States  
Environmental Protection Agency  
Washington, DC 20460

<input type="checkbox"/>	Registration
<input checked="" type="checkbox"/>	Amendment
<input type="checkbox"/>	Other

OPP Identifier Number  
244478

Application for Pesticide - Section I

1. Company/Product Number 239-2653	2. EPA Product Manager R. Taylor	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Roundup Rainfast Concentrate <del>Weed &amp; Grass Killer</del>	PM# 25	
5. Name and Address of Applicant (Include ZIP Code) The SOLARIS Group of Monsanto Company P. O. Box 5006 San Ramon, CA 94583-0906 <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.

NOTIFICATION

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

NOV 21 1996

NOTIFICATION  
To add alternative text for product uses and how it works, <sup>note copy</sup> and to give location of the mixing directions under the refill instructions.

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes* <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Metal	<input type="checkbox"/> Plastic
				<input type="checkbox"/> Glass	<input type="checkbox"/> Paper
* Certification must be submitted		If "Yes" Unit Packaging wgt. No. per container	If "Yes" Package wgt. No. per container	<input type="checkbox"/> Other (Specify) _____	
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input 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 Katherine A. Buteau	Title Registration Specialist	Telephone No. (Include Area Code) (510) 355-3339
2. Signature <i>Katherine A. Buteau</i>		3. Title Registration Specialist
4. Typed Name Katherine A. Buteau		5. Date October 30, 1996
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)

20410

# 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.

**NOTIFICATION**

NOV 21 1996

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%

Net 32 fl oz (1 qt) 946mL, 53.7 fl oz (.42gal) 1.5 L or 128 fl oz (1 gal) 3.7 L

30410

**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. ~~10/30/96 Alternative text: Roundup® Concentrate kills almost all weeds, grasses and other unwanted plants. Once it enters the plant, it is rainproof within two hours and won't wash off.~~ 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

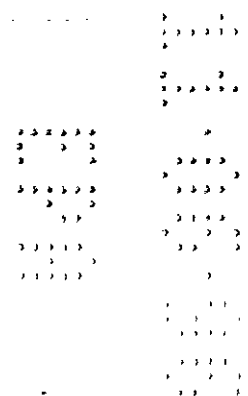
**CAUTION:** Causes eye irritation. Avoid contact with eyes or clothing.  
SEE ADDITIONAL PRECAUTIONARY STATEMENTS AND DIRECTIONS INSIDE BOOKLET.

☞ **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

©Trademark of Monsanto Company  
©MONSANTO COMPANY 1996  
The SOLARIS Group of Monsanto Company  
P.O. Box 5008  
San Ramon CA 94583-0808  
Form 7-984-01 / Product  
EPA Reg. No. 239-new  
EPA Est. 239-IA-3<sup>1</sup>, 524-LA-1<sup>4</sup>, 56100-LA-1<sup>6</sup>  
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. [10/30/96 Alternative text] Roundup® Concentrate kills almost all weeds, grasses and other unwanted plants. Once it enters the plant it is rainproof within two hours and won't wash off. 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       | Tansy Mustard    |
| Blue Mustard        | Filaree             | Smartweed          | Teaweed          |
| Buttercup           | Florida Pusley      | Prickly Lettuce    | Texas Panicum    |
| Bromegrass          | Foxtail             | Prostrate Spurge   | Tumble Mustard   |
| Bur Clover          | Goosegrass          | Puncture Vine      | Sprangletop      |
| Chickweed           | Garden Spurge       | Redroot Pigweed    | Witchgrass       |
| Common Groundsel    | Horseweed/marestail | Sandspur           | 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 Morningglory)	Orchardgrass	Sumac
Canada Thistle	Honeysuckle	Oxalis	Tall Fescue
Cherry species	Horseradish	Pennywort	Timothy
Common Ragweed	Kikuyugrass	Perennial Ryegrass	Torpedograss
Creeping Bentgrass	Milkweed	Poison Hemlock	Trumpet creeper
Creeping Charlie	Knapweed	Quaking Aspen	Vaseygrass
Curly dock	Guineagrass	Pampasgrass	Virginia Creeper
Dandelion	Horsenettle	Wild Sweet Potato	White Clover
Dallisgrass	Iceplant	Wild Oats	Whitetop
Dewberry	Lantana	Virginia Creeper	Wild Barley
Common Mullein	Nightshade, silverleaf	Poison Oak	Willow
Cattail	Johnsongrass	Poison Ivy	Yellow Starthistle
Cocklebur	Kentucky Bluegrass	Primrose	Yellow Nutgrass
		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.

**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

70410

**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 thorough 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. <b>DO NOT ADD WATER.</b> Set dial to 3 oz and spray.	Fill cap to Level 4 three times (12 Tbs) and add to sprayer jar. <b>DO NOT ADD WATER.</b> 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 times (3 Tbs). Add to 24 oz of water.	Use for spot treatments or single weeds

8010

[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 <del>Hard To Control Weeds</del> Brush or 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. <b>DO NOT ADD WATER.</b> Set dial to 3 oz and spray.	Add 6 oz (12 Tbs) Roundup to sprayer jar. <b>DO NOT ADD WATER.</b> 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.  
~~10/30/96 For Refilling Directions~~

~~This product can be used to refill Roundup Ready-To-Use Weed & Grass Killer, following mixing directions on the Roundup Ready-To-Use bottle.~~



# RE-SEEDING AND REPLANTING IN SPRAYED AREAS

90410

**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	kohirabi	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

100710

### 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.

[Reentry 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.

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

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

®Trademark of Monsanto Company  
©MONSANTO COMPANY 1996  
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  
EPA Est. 239-1A-3<sup>1</sup>, 524-LA-1<sup>1</sup>, 56100-LA-1<sup>6</sup>  
Superscript is first letter of lot number  
Made in USA