

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

Registration [ ] Amendment [X] Other [ ]

OPP Identifier Number 242716

Application for Pesticide - Section I

1. Company/Product Number 239-2637
2. EPA Product Manager R. Taylor
3. Proposed Classification [X] None [ ] Restricted
4. Company/Product (Name) Roundup Super Concentrate Weed & Grass Killer
5. Name and Address of Applicant (Include ZIP Code) The SOLARIS Group of Monsanto Company
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

Amendment - Explain below. [ ]
Resubmission in response to Agency letter dated [ ]
Notification - Explain below. [X]
Final printed labels in response to Agency letter dated [ ]
'Me Too' Application. [ ]
Other - Explain below. [ ]

NOTIFICATION APR 24 1996

Explanation: Use additional page(s) if necessary. (For section I and Section II.)
NOTIFICATION To add additional labeling statements related to alternative packaging.

Section - III

1. Material This Product Will Be Packaged In: Child-Resistant Packaging, Unit Packaging, Water Soluble Packaging, 2. Type of Container, 3. Location of Net Contents Information, 4. Size(s) Retail Container, 5. Location of Label Directions, 6. Manner in Which Label is Affixed to Product

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. (510) 355-3339
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete.
2. Signature Katherine A. Buteau, 3. Title Registration Specialist, 4. Typed Name Katherine A. Buteau, 5. Date March 21, 1996, 6. Date Application Received (Stamped)

**FRONT PANEL**

2 9 10

**Roundup® Super Concentrate Weed & Grass Killer**

[New packaging claims to support our new package]  
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.

~~7/10/95] Built-in measuring cap~~

No odor

Water - based formula

Mix with water to make up to 21 / 85 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

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 3 to 5 tablespoons (1½ - 2½ oz) per gallon, Concentrated For Extra Value  
Satisfaction guaranteed or your money back with proof of purchase

Use to refill Roundup Ready-To-Use

~~8/24/95] [animal logo] - American Zoological Association American Zoo and Aquarium Association~~  
Species Survival Plan

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 7 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

**WARNING** Read precautions and directions on back label.

[Fix-a-Form label] See back panel booklet for additional precautionary statements

Active Ingredient

Glyphosate, N-(phosphonomethyl)glycine in the form of its isopropylamine salt . . . . . 41.0%

Inert Ingredients . . . . . 59.0%

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

**Roundup® Super Concentrate Weed & Grass Killer** PULL HERE TO OPEN LABEL

Roundup® Super Concentrate will kill almost all annual and perennial weeds, grasses and other unwanted plants. Mix Roundup Super Concentrate with water and use on driveways and walkways, or around fences, trees, flower beds, shrubs 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.

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

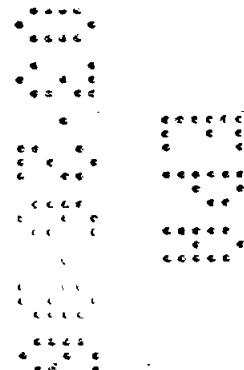
**WARNING:** Causes substantial but temporary eye injury. Do not get in eyes or on clothing. SEE ADDITIONAL PRECAUTIONARY STATEMENTS AND DIRECTIONS INSIDE BOOKLET.

☞ **Medical Information call collect 1-314-694-4000.**  
**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 1995  
The SOLARIS Group of Monsanto Company  
P.O. Box 5008  
San Ramon CA 94583-0808  
Form 7-853-C / Product 6042  
EPA Reg. No. 239-2637  
EPA Est. 239-IA-3<sup>1</sup>, 524-LA-1<sup>L</sup>, 56100-LA-1<sup>G</sup>  
Superscript is first letter of lot number  
Made in USA



[Inside back booklet]

4 9 10

Roundup® Super Concentrate will kill almost all annual and perennial weeds, grasses and other unwanted plants. Mix Roundup Super Concentrate with water and use on driveways and walkways, or around fences, trees, flower beds, shrubs 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.

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**CONTROLS WEEDS AND GRASSES INCLUDING:**

**General Weed Control (Annuals)**

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

**Tough Weed Control (Perennials, Brush)**

- |                    |                      |                    |                 |
|--------------------|----------------------|--------------------|-----------------|
| Alder              | Elderberry           | Oxalis             | Tall Fescue     |
| Bahiagrass         | False Dandelion      | Pennywort          | Timothy         |
| Bentgrass          | Fescue species       | Perennial Ryegrass | Torpedograss    |
| Bermudagrass       | Field Bindweed (Wild | Poison Oak         | Trumpetcreeper  |
| Blackberries       | Morningglory)        | Poison Ivy         | Vaseygrass      |
| Broadleaf Plantain | Honeysuckle          | Primrose           | White Clover    |
| Canada Thistle     | Johnsongrass         | Purple Nutsedge    | Whitetop        |
| Cherry species     | Kentucky Bluegrass   | Quackgrass         | Wild Barley     |
| Common Ragweed     | Kudzu                | Ragweed            | Willow          |
| Creeping Bentgrass | Multiflora Rose      | Raspberry          | Yellow Nutgrass |
| Creeping Charlie   | Nimblewill           | Red Clover         | Zoysia          |
| Curly dock         | Nutsedge             | Smooth Bromegrass  |                 |
| Dandelion          | Oak species          | St. Augustinegrass |                 |
| Dallisgrass        | Oldenlandia          | Sumac              |                 |
| Dewberry           | Orchardgrass         |                    |                 |

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

## DIRECTIONS FOR USE

5 7 10

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. Treated weeds usually show initial symptoms within 1 week and complete kill in 1 to 2 weeks. Larger more established weeds may take up to 4 weeks for a complete kill. 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 6 hours 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 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.

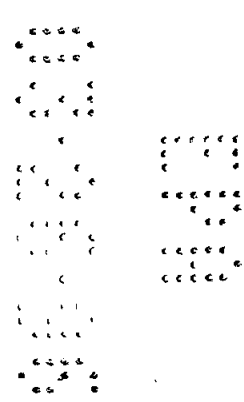
# STUMP TREATMENT

6 7 10

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 9 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


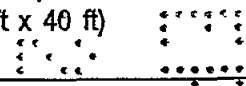

- Plastic, aluminum or stainless steel tank sprayer
- ORTHO DIAL 'n SPRAY®
- ORTHO SPRAY-ETTE®
- Other hose-end sprayer recommended for weed killers
- Hand-trigger sprayer

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 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 2 three times (3 Tbs). Add to 1 gallon of water.	Fill cap to Level 2 five times (5 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 2 three times (3 Tbs) and add to sprayer jar. <b>DO NOT ADD WATER.</b> Set dial to 1 1/2 oz and spray.	Fill cap to Level 2 five times (5 Tbs) and add to sprayer jar. <b>DO NOT ADD WATER.</b> Set dial to 2 1/2 oz and spray.	300 sq ft 
ORTHO SPRAY-ETTE®	Fill cap to Level 4 three times (6 oz ) and add to sprayer jar. Fill to the 4 gallon mark and spray.	Fill cap to Level 4 five times (10 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 two times (2 tsp). Add to 24 oz of water.	Fill cap to Level 2 one time (1 Tbs). Add to 24 oz of water.	Use for spot treatments or single weeds 

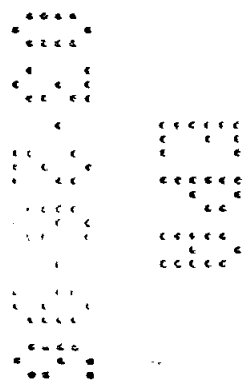
3/21/96 [Alternative directions for use when measuring cap packaging is not used]

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 1 1/2 oz (3 Tbs) Roundup in 1 gal of water.	Use 2 1/2 oz (5 Tbs) Roundup in 1 gal of water.	300 sq ft (30 ft x 10 ft)
ORTHO DIAL 'n SPRAY® Hose End sprayer	Add 1 1/2 oz (3 Tbs) Roundup to sprayer jar. <b>DO NOT ADD WATER.</b> Set dial to 1 1/2 oz and spray.	Add 2 1/2 oz (5 Tbs) Roundup to sprayer jar. <b>DO NOT ADD WATER.</b> Set dial to 2 1/2 oz and spray.	300 sq ft
ORTHO SPRAY-ETEC®	Add 6 oz Roundup to sprayer jar. Fill to the 4 gal mark and spray.	Add 10 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 2 Tsp in 24 oz of water.	Use 1 Tbs in 24 oz of water.	Use for spot treatments of single weeds.

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





RE-SEEDING AND REPLANTING IN SPRAYED AREAS

9 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 [3/1/96] or transplanting. For tomato transplants or unlisted vegetables, wait 30 days after spraying.

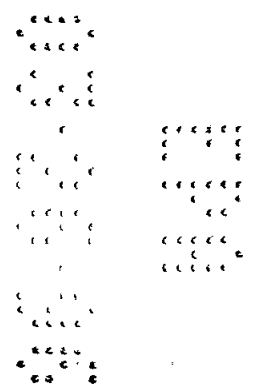
beans	Crenshaw melon	mango melon	rhubarb
beet greens	cucumber	melons	rutabaga
broccoli	eggplant	muskmelon	spinach
Brussels sprouts	endive	mustard greens	summer squash
cabbage	garlic	okra	sweet potato
cantaloupe	honeydew melon	onion	tomatillo
carrot	honey ball melon	rape greens	tomato*
cauliflower	horseradish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

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



10 7 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

**WARNING:** Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Wear safety glasses. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

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

**FIRST AID:** If in eyes, immediately hold eyelids open and flush with a steady stream of water for 15 minutes. Get medical attention if irritation persists. In case of emergency involving this product, call collect, day or night, (314) 694-4000.

### 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 collect 1-314-694-4000.**  
**Product Information call 1-800-225-2883**

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©MONSANTO COMPANY 1995  
The SOLARIS Group of Monsanto Company  
P.O. Box 5008  
San Ramon CA 94583-0808  
Form 7-853-C / Product 6042  
EPA Reg. No. 239-2637  
EPA Est 239-IA-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

