

PM 25

239-2636

4/24/97

pg 1/11

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
 Other

OPP Identifier Number
251538

Application for Pesticide - Section I

1. Company/Product Number 239-2636	2. EPA Product Manager Phillip Errico	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Roundup Concentrate Weed & Grass Killer	PM# 75	
5. Name and Address of Applicant (Include ZIP Code) The Solaris Group Of Monsanto P.O. Box 5006 San Ramon, Ca 94593-0906 <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
APR 24 1997

Explanation: Use additional page(s) if necessary. (For section I and Section II.)
Notification: New front label copy, Alternate mixing instructions. Update icon and medical information phone number, and fix typos. This notification is consistent with the provisions of PR Notice 95-2 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the CSF of this formula.

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	Metal Plastic Glass Paper Other (Specify) _____		
* Certification must be submitted		If "Yes" Unit Packaging wgt. No. per container	If "Yes" Package wgt. No. per container		
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 Stephen R. Cornes		Title Regulatory Specialist		Telephone No. (Include Area Code) (510) 355-3336	
<p align="center">Certification</p> <p>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.</p>					6. Date Application Received (Stamped)
2. Signature 		3. Title Regulatory Specialist			
4. Typed Name Stephen Cornes		5. Date 3/28/97			

2/11

FRONT PANEL

ABN - Roundup® Tough Weed Formula

[3/28/97 NOTIFICATION] Brush Killer Concentrate

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 NOTIFICATION] Built-In Measuring Cap

No odor

Water - based formula

Mix with water to make up to **[3/28/97 NOTIFICATION]** 10.5 / 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

Kills / spray weeds in flower beds and **around fences**, trees, shrubs, driveways, walkways and shrubs, in and around fences, patios, **paths**, sidewalk cracks, walkways,

Satisfaction guaranteed or your money back with proof of purchase

Use to refill Roundup Ready-To-Use

[Per 9/25/95 Letter from R. Taylor - EPA] [animal logo]—American Zoological Association Species Survival Plan Used by American Zoo and Aquarium Association Member Zoos to Effectively Control Weeds

For General Weed Control - Kills Weeds And Grasses In 2 To 4 Weeks - Roots & All

New, Improved Formula

Multipurpose Grass & Broadleaf Weed Control

Visible Results In 7 Days

Can Reseed or Sod Lawns 7 Days After Treatment

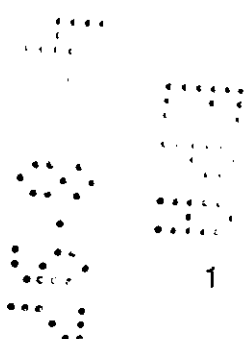
Ornamental gardens can be reseeded or planted 1 day after treatment

Completely kills even the toughest weeds and grasses

Kills tough and hard-to-kill weeds!

- Blackberries
- Poison Ivy
- Poison Oak
- Thistles
- Kudzu

NOTIFICATION
4/24/97
APR 24 1997



3/11

Use for Stump Treatment

Economical- mix 12 Tablespoons (6 oz) per gallon, Concentrated For Extra Value

Spray woody brush, trees and vines around houses, buildings, wooded lots, vacant lots, storage and recreational areas and along fences and driveways, or anywhere tough weeds are growing.

Keep out of reach of children

CAUTION Read precautions and directions on back label.

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

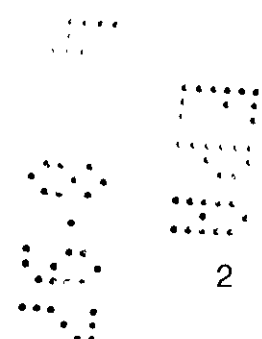
Active Ingredient

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

Inert Ingredients 82.0%

Net 16 fl oz (1 pt) 473mL, 32 fl oz (1 qt) 946mL, or 64 fl oz (1/2 gal) 1.89 L

Net 250mL, 500mL, 750 mL, 1L, or 1.89 L, 2L



4/11

[Fix-a-Form label][Back Cover]

Roundup® Tough Weed Formula

PULL HERE TO OPEN LABEL

[Per 9/25/95 Letter from R. Taylor - EPA] Used by American Zoo and Aquarium Association Member Zoos to Effectively Control Weeds

Roundup will kill almost all annual and perennial weeds, grasses and other unwanted plants and is formulated to handle tough weeds and brush. Mix Roundup Tough Weed Formula 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 **[3/28/97 NOTIFICATION]** restoration/renovation and garden preparation. Roundup kills weeds by stopping 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.

Peel open for use directions and further information

PRESS HERE TO RESEAL

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

☎ **Medical Information call [3/28/97 NOTIFICATION] collect 1-314-694-4000, 1-800-454-2333**

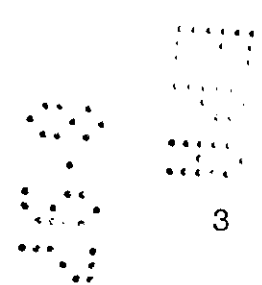
Product Information call 1-800-225-2883

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 1995

Manufactured for
The SOLARIS Group of Monsanto Company
P.O. Box 5008
San Ramon CA 94583-0808
Form FS- 864-A / Product
EPA Reg. No. 239-2636
EPA Est. 239-IA-3¹, 524-LA-1^L, 58996-MO-1^M
Superscript is first letter of lot number
Made in USA



[Inside back booklet]

Roundup® Tough Weed Formula

Roundup will kill almost all annual and perennial weeds, grasses and other unwanted plants and is formulated to handle tough weeds and brush. Mix Roundup Tough Weed Formula 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 **[3/28/97 NOTIFICATION]** renovation, restoration and garden preparation. Roundup kills weeds by stopping 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.

CONTROLS WEEDS AND GRASSES INCLUDING:

General Weed Control

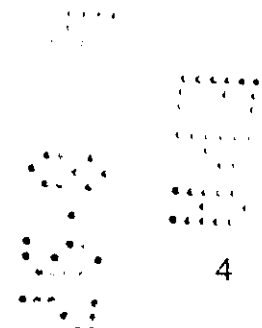
(Annuals)

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

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



6/11

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in **[3/28/97 NOTIFICATION]** any 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 brush are actively growing. Apply only when air is calm. Roundup works best in warm sunny weather with daytime temperature above 60° F. 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 Tough Weed Control: Use on green, actively growing parts of unwanted plants. If plants are taller than 5 feet, cut back and spray regrowth. Brush sprayed in the fall may not be controlled until the following season.

Roundup Tough Weed Formula controls the following woody brush, vines, and tough weeds:

Alder	Elm	Raspberry
Ash	Eucalyptus	Sage
Aspen	Hazel	Sagebrush
Blackberry	Hawthorn	Salmonberry
Broom (French, Scotch)	Honeysuckle	Sassafras
Buckwheat	Kudzu	Sumac
Ceanothus	Locust	Sweetgum
Chamise	Maple	Thimbleberry
Cherry	Oak	Tree Tobacco
Coyote Brush	Persimmon	Trumpet creeper
Dewberry	Poison Ivy	Willow
Elderberry	Poison Oak	Wild Rose (multiflora)
	Poplar	

[3/28/97 NOTIFICATION] Telephone Icon For information regarding specific weeds controlled by this product call: 1-800-225-2883.

For Best Results:

Kudzu Vine Kudzu is a woody perennial vine that can grow up to 60 feet per year. Desirable plants completely covered can be killed by the shade from Kudzu. Control is most effective in mid to late summer when the vine is mature and actively growing. Use Roundup anytime plants are actively growing. If kudzu has covered trees and shrubs, cut off the stems and remove them. Spot treat when resprouting of kudzu vine occurs. **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.

Wild Blackberry Wild blackberry is a perennial plant with thorny stems that can grow up to 8 ft tall. For control, use Roundup anytime plants are actively growing. Dead canes should be cut down and removed. Repeat treatments, especially in the fall, are often required to kill the deep roots.

Poison Ivy and Poison Oak These are perennial plants that may grow as a shrub or as a vine. Contact with the plant anytime of the year causes skin irritation. Consequently, hand pulling and burning are not practical solutions for control. For best results, treat anytime plants are actively growing, but at least 4 weeks before the first killing frost in the fall. Reapply if new growth appears. Handle dead plants with rubber gloves, since they may still cause skin irritation. Dispose of plants and rubber gloves in tightly sealed garbage bags. If you come in contact with poison ivy or poison oak, wash as soon as possible with rubbing alcohol or a solution of baking soda and water.

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.

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 **[3/28/97 NOTIFICATION -/to** 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

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	AREA TO TREAT
Tank Sprayer	Fill cap to Level 4 three times (12 Tbs). Add to 1 gallon of water.	Spray to evenly wet. For lawn renovation covers 300 sq ft (30 ft x 10 ft)
ORTHO DIAL 'n SPRAY®	Fill cap to Level 4 three times (12 Tbs) and add to sprayer jar. DO NOT ADD WATER. Set dial to 5 oz	Spray to evenly wet. For lawn renovation covers 300 sq ft (30 ft x 10 ft)
ORTHO SPRAY-ETTE®	Fill cap to Level 4 ten times (20 oz.) and add to sprayer jar. Fill to the 4 gal mark and spray	Spray to evenly wet. For lawn renovations covers 1200 sq ft (30 ft x 40 ft)

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

9/11

[3/28/97 NOTIFICATION - Alternate Mixing Instructions for Non-Measuring Cap Containers]

Use the following table to determine the amount of Roundup you need. Close cap tightly after use.

1 fl oz = 2 Tbs

APPLICATOR	MIXING INSTRUCTIONS	AREA TO TREAT
Tank Sprayer	Use 6 oz (12 Tbs) Roundup in 1 gallon of water.	Spray to evenly wet. For lawn renovation. covers 300 sq ft (30 ft x 10 ft).
ORTHO® DIAL 'n SPRAY®	Add 6 oz (12 Tbs Roundup to sprayer jar. Do not add water. Set dial to 5 oz and spray.	Spray to evenly wet. For lawn renovation. covers 300 sq ft (30 ft x 10 ft).
ORTHO SPRAY-ETTE®	Add 20 oz Roundup to sprayer jar. Fill to the 4 gallon mark and spray.	Spray to evenly wet. For lawn renovation. covers 1200 sq ft (30 ft x 40 ft).

RE-SEEDING AND REPLANTING IN SPRAYED AREAS

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

Vegetables - To plant listed vegetables, wait 3 days after spraying, before seeding. 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.

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

STORAGE AND DISPOSAL

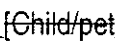
STORAGE: Store this product only in its original container and in a secured storage area. Protect container from freezing.

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

[3/28/97 NOTIFICATION]  People and pets may reenter treated areas after sprayed vegetation has dried.

FIRST AID: If in eyes, immediately flush with plenty of water. Get medical attention if irritation persists. In case of emergency involving this product, call **[3/28/97 NOTIFICATION]** collect, day or night, (314)694-4000. 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 [3/28/97 NOTIFICATION] collect 1-314-694-4000. 1-800-454-2333.

Product Information call 1-800-225-2883

©Trademark of Monsanto Company

©MONSANTO COMPANY 1995

Manufactured for
The SOLARIS Group of Monsanto Company
P.O. Box 5008

11/11
8

San Ramon CA 94583-0808
Form RS864-A / Product
EPA Reg. No. 239-2636
EPA Est. 239-1A-3¹, 524-LA-1¹, 58996-MO-1^M
Superscript is first letter of lot number
Made in USA