

August 6, 1996

Roundup® Rainfast Tough Weed

NEW! BUILT-IN MEASURING CAP AND POUR SPOUT INCLUDED

Now easier to measure and pour. Child Resistant Cap

Kills the root so weeds don't come back. No root. No weed. No problem.

No odor, Water - based formula,

Mix with water to make up to 2 1/2 / 5 / 10 gallons of spray solution [varies with pt / qt / 1/2 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,

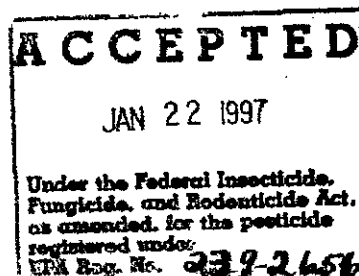
Multipurpose Grass & Broadleaf Weed Control

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

Completely kills even the toughest weeds and grasses

Kills tough and hard-to-kill weeds!

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



Use for Stump Treatment

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.

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

Use to prepare sites for large plantings, for planting flower beds, fruit trees, ornamentals, vegetables, garden sites and renovating 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.

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

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

Satisfaction guaranteed or your money back with proof of purchase

Use to refill Roundup Ready-To-Use Weed & Grass Killer

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

Apply Roundup, rainfast starts working immediately, Visible Results In 2 to 4 Days

Guaranteed same effective results even if it rains within hours

New formulation enters the plant within one to two hours, won't wash off

Quick uptake, eliminates weather concerns, Rainfast in hours - enters the plant on contact

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, Can be used around small fruits and vegetables

Kills over 100 weeds

KEEP OUT OF REACH OF CHILDREN

CAUTION Read precautions and directions on back label.

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See back panel booklet for additional precautionary statements

Active Ingredient

Glyphosate, N-(phosphonomethyl)glycine in the form of its isopropylamine salt	27.0%
Inert Ingredients	73.0%

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

Roundup® Rainfast Tough Weed

PULL HERE TO OPEN LABEL

Roundup® Rainfast Tough Weed once it enters the plant, won't wash off after 1 to 2 hours. Use to control Kudzu, Wild Blackberries, and Poison Oak and Poison Ivy. Mix Roundup with water to kill brush, other tough weeds, grasses and other unwanted plants. Use on wooded lots, around yard edges [perimeters], fences, trees, flower beds, shrubs, and other areas where brush is invading 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 7-104-01 / Product
EPA Reg. No. 239-new
EPA Est. 239-1A-3^l, 524-LA-1^l, 56100-LA-1^g
Superscript is first letter of lot number
Made in USA

[Inside back booklet]

Roundup® Rainfast Tough Weed once it enters the plant, won't wash off after 1 to 2 hours. Use to control Kudzu, Wild Blackberries, and Poison Oak and Poison Ivy. Mix Roundup with water to kill brush, other tough weeds, grasses and other unwanted plants. Use on wooded lots, around yard edges [perimeters], fences, trees, flower beds, shrubs, and other areas where brush is invading 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.

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CONTROLS WEEDS AND GRASSES INCLUDING:

General Weed Control (Annuals)

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

Tough Weed Control (Perennials, Brush)

5010

Alder
Artichoke Thistle
Bahia grass
Bentgrass
Bermudagrass
Blackberries
Broadleaf Plantain
Canada Thistle
Cherry species
Common Ragweed
Creeping Bentgrass
Creeping Charlie
Curly dock
Dandelion
Dallisgrass
Dewberry
Common Mullein
Cattail
Cocklebur
Ceanothus
Cogongrass
Coyote Brush
Elderberry
False Dandelion
Fescue species
Field Bindweed
(Wild Morningglory)

Honeysuckle
Horseradish
Kikuyugrass
Milkweed
Knapweed
Guineagrass
Horsenettle
Iceplant
Lantana
Nightshade, silverleaf
Johnsongrass
Kentucky Bluegrass
Kudzu
Multiflora Rose
Nimblewill
Nutsedge
Oak species
Oldenlandia
Orchardgrass
Oxalis
Pennywort
Perennial Ryegrass
Poison Hemlock
Quaking Aspen
Pampasgrass
Wild Sweet Potato

Wild Oats
Virginia Creeper
Poison Oak
Poison Ivy
Primrose
Purple Nutsedge
Quackgrass
Ragweed
Raspberry
Red Clover
Smooth Bromegrass
St. Augustinegrass
Sumac
Tall Fescue
Timothy
Torpedograss
Trumpet creeper
Vaseygrass
Virginia Creeper
White Clover
Whitetop
Wild Barley
Willow
Yellow Starthistle
Yellow Nutgrass
Zoysia

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

DIRECTIONS FOR USE

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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, grasses or brush are actively growing. Apply only when the air is calm. 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. Reapply, if it rains within 1 to 2 hours after application.

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

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

For Best Results:

Kudzu Vine Kudzu, a woody vine, can grow up to 60 feet per year, completely covering and killing desirable plants. Control is most effective in mid to late summer when the vine is mature and actively growing. If kudzu has covered trees and shrubs, cut off the stems and remove them. Spot treat when kudzu resprouts. **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 has 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 plants may grow as a shrub or 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 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.

STUMP TREATMENT

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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.

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 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. **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.

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.

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 thorough cleaning, sprayer may be used to apply other products.

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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 (6 oz). 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 4 three times (6 oz) and add to sprayer jar. DO NOT ADD WATER. Set dial to 5 1/3 oz and spray.	300 sq ft
ORTHO SPRAY-ETTE®	Fill cap to Level 4 twelve times (24 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 3 once (1 fl oz). 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 Tough Weed Control Perennials or Brush Lawn Renovation	AREA TO TREAT
Tank Sprayer	Use 6 oz (12 Tbs) Roundup in 1 gal of water.	300 sq ft (30 ft x 10 ft)
ORTHO DIAL 'n SPRAY® Hose-End sprayer	Add 6 oz (12 Tbs) Roundup to sprayer jar. DO NOT ADD WATER. Set dial to 5 1/3 oz and spray.	300 sq ft
ORTHO SPRAY-ETTE®	Add 24 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 Tbs (1 oz) 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.

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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 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

STORAGE AND DISPOSAL

STORAGE: Store this product only in its original container 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.

[Person/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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Form 7-104-01 / Product
EPA Reg. No. 239-new
EPA Est. 239-IA-3¹, 524-LA-1¹, 56100-LA-1⁹
Superscript is first letter of lot number
Made in USA