

This sample label is current as of 10/13/93. The product descriptions and recommendations provided in this sample label are for background information only. Always refer to the label on the product before using Monsanto or any other agricultural product.



A non-selective postemergent herbicide for weed control on commercial, industrial and residential sites.

- Each 1 ounce packet makes 1 gallon of spray solution
• Suitable for use in pump-up, backpack and similar sprayers
• Controls or partially controls labeled broadleaf and grass weeds and woody brush and trees, roots and all

Complete Directions for Use

AVOID CONTACT WITH FOLIAGE, GREEN STEMS, EXPOSED NONWOODY ROOTS, OR FRUIT OF CROPS, DESIRABLE PLANTS AND TREES, SINCE SEVERE INJURY OR DESTRUCTION MAY RESULT.

*Roundup is a registered trademark of Monsanto Company. EPA Reg. No. 524-436

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Read the entire label before using this product.

Use only according to label instructions.

Read "LIMIT OF WARRANTY AND LIABILITY" before buying or using. If terms are not acceptable, return at once unopened.

REFORMULATION OR REPACKAGING IS PROHIBITED.

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

Keep out of reach of children.

CAUTION!

HARMFUL IF SWALLOWED OR INHALED. MAY CAUSE EYE IRRITATION.

Avoid contact with skin, eyes or clothing.

Avoid breathing dust.

FIRST AID: IF IN EYES, immediately flush with plenty of water. Get medical attention.

IF ON SKIN, immediately flush with plenty of water. Remove material from skin and clothing.

IF INHALED, remove individual to fresh air. Seek medical attention if breathing difficulty develops.

IF SWALLOWED, remove visible particles from mouth and rinse mouth thoroughly with water. Drink water to dilute. Get medical attention. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

Personal Protective Equipment (PPE)

Applicators and other handlers must wear long-sleeved shirt and long pants, and shoes plus socks. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

User Safety Recommendation

User should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

In case of an emergency involving this product, Call Collect, day or night, (314) 694-4000.

Environmental Hazards

Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters.

Physical or Chemical Hazards

Spray solutions of this product should be mixed, stored and applied using only stainless steel, aluminum, fiberglass, plastic or plastic-lined steel containers.

DO NOT MIX, STORE OR APPLY THIS PRODUCT OR SPRAY SOLUTIONS OF THIS PRODUCT IN GALVANIZED STEEL OR UNLINED STEEL (EXCEPT STAINLESS STEEL) CONTAINERS OR SPRAY TANKS. This product or spray solutions of this product react with such containers and tanks to produce hydrogen gas which may form a highly combustible gas mixture. This gas mixture could flash or explode, causing serious personal injury, if ignited by open flame, spark, welder's torch, lighted cigarette or other ignition source.

ACTIVE INGREDIENT:

*Glyphosate, N-(phosphonomethyl)glycine, in the form of its monoammonium salt..... 93.96%
INERT INGREDIENTS:..... 6.04%
100.00%

*Equivalent to 85% of the acid, glyphosate.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any manner inconsistent with its labeling. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 4 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, are: coveralls, waterproof gloves and shoes plus socks.

Non-Agricultural Use Requirements

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Keep people and pets off treated areas until spray solution has dried.

Storage and Disposal

Do not contaminate water, foodstuffs, feed or seed by storage or disposal.

DISPOSAL: Wastes resulting from the use of this product that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticide disposal or in accordance with applicable Federal, state or local procedures.

Emptied container retains vapor and product residue. Observe all labeled safeguards until container is destroyed. Do not reuse container.

Completely empty packet into application equipment. Dispose of packet in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke. Dispose of box in same manner.

GENERAL INFORMATION

This product, a water soluble granule, mixes readily with water to be applied as a foliar spray for the control of most herbaceous and woody plants. It may be applied through most standard pump-up, backpack or similar sprayers after dilution and thorough mixing with water in accordance with label instructions.

This product moves through the plant from the point of foliar contact to and into the root system. Visible effects on most annual weeds occur within 2 to 4 days, but on most perennial weeds may not occur for 7 days or more. Extremely cool or cloudy weather following treatment may slow activity of this product and delay visual effects of control. Visible effects are a gradual wilting and yellowing of the plant which advances to complete browning of aboveground growth and deterioration of underground plant parts.

Rainfall or irrigation occurring within 6 hours after application may reduce effectiveness. Heavy rainfall or irrigation within 2 hours after application may wash the chemical off the foliage and a repeat treatment may be required.

This product does not provide residual weed control. For extended weed control, either reapply this product when weeds reemerge, or use a tank mixture of this product with a residual herbicide (See the "Tank Mixtures" section of this label), or apply an approved residual herbicide in a separate application. Read and carefully observe the cautionary statements and all other information appearing on the labels of all herbicides used.

Buyer and all users are responsible for all loss or damage in connection with the use or handling of mixtures of this product with herbicides or other materials that are not expressly recommended in this labeling. Mixing this product with herbicides or other materials not recommended on this label may result in reduced performance.

This product is recommended for commercial, industrial and residential weed control in areas such as airports, golf courses, highways and roadsides, industrial plant sites, institutional sites, municipalities, lawns, turfgrass renovation, around ornamental plantings and trees, dry ditchbanks, dry canals, lumberyards, nurseries, greenhouses, shadehouses, parking areas, parks, playgrounds, petroleum tank farms, farmsteads, fencerows, pipeline, power and telephone and utility rights-of-way, railroads, schools, storage areas, Christmas tree plantations, woodland areas and similar sites.

This product controls many weeds around buildings, signposts, trees, fences, sidewalks, driveways and patios; in vacant lots, storage and recreational areas; and prior to planting turfgrasses, shrubs, trees and flower beds.

DO NOT APPLY THROUGH ANY TYPE OF IRRIGATION SYSTEM.

DOMESTIC ANIMALS: This product is considered to be relatively nontoxic to dogs and other domestic animals; however, ingestion of this product or large amounts of freshly sprayed vegetation may result in temporary gastrointestinal irritation (vomiting, diarrhea, colic, etc.). If such symptoms are observed, provide the animal with plenty of fluids to prevent dehydration. Call a veterinarian if symptoms persist for more than 24 hours.

ATTENTION

AVOID DRIFT. EXTREME CARE MUST BE USED WHEN APPLYING THIS PRODUCT TO PREVENT INJURY TO DESIRABLE PLANTS AND CROPS.

THIS PRODUCT CAN INJURE OR DESTROY ALL VEGETATION CONTACTED. AVOID SPRAY CONTACT WITH THE FOLIAGE OF DESIRABLE TURF, ORNAMENTALS, SHRUBS OR TREES. DO NOT SPRAY GREEN BARK OR EXPOSED NONWOODY ROOTS OF DESIRABLE TREES AND SHRUBS. IF SPRAY CONTACTS THESE PARTS OF DESIRABLE PLANTS, THEY SHOULD BE RINSED IMMEDIATELY WITH WATER.

Do not allow the herbicide solution to mist, drip, drift, or splash onto desirable vegetation since this product can cause severe damage or destruction to the crop, plants, or other areas on which treatment was not intended. The likelihood of injury occurring from the use of this product is greatest when winds are gusty or in excess of 5 miles per hour or when other conditions, including lesser wind velocities, will allow spray drift to occur. When spraying, avoid combinations of pressure and nozzle type that will result in splatter or fine particles (mist) which are likely to drift. AVOID APPLYING AT EXCESSIVE SPEED OR PRESSURE.

NOTE: Use of this product in any manner not consistent with this label may result in injury to persons, animals or crops, or other unintended consequences. Keep container closed to prevent spills and contamination.

MIXING AND SPRAYING

Add 1 packet of this product to 1 gallon of clean water:

Step 1: Add the contents of 1 packet per gallon of water to the spray tank.

Step 2: Fill the spray tank with the desired amount of water.

Step 3: Thoroughly agitate the mixture until all of the product has dissolved and is well mixed.

NOTE: IF USING A LABELED TANK MIXTURE, ADD THE TANK MIX PRODUCT TO THE TANK FIRST ACCORDING TO LABELED DIRECTIONS, THEN ADD THIS PRODUCT.

This product is premeasured to give the correct concentration for general weed control.

Agriculturally approved colorants or marking dyes may be added to this product. Use colorants or dyes according to the manufacturer's recommendations.

Nonionic surfactants may be used with this product. Use according to the surfactant manufacturer's directions.

Applications should be made on a spray-to-wet basis. Spray coverage should be uniform and complete. Do not spray to the point of runoff.

Cleaning of Equipment

Triple-rinse sprayer and flush all sprayer components with water to remove residues of this product. After thorough cleaning, equipment may be used to apply other products.

TANK MIXTURES

When applied as a tank mixture, this product provides control of emerged weeds listed in this label and pre-emergence control of the weeds listed in the individual product labels.

PENNANT™

RONSTAR™ 50WP

SURFLAN™ AS

Read and carefully observe the label claims, cautionary statements, recommended use rates and all other information on the labels of all products used in these tank mixtures. Use according to the most restrictive label directions for each product in the mixture.

™Pennant is a trademark of Novartis.

™Ronstar is a trademark of Rhone-Poulenc, Inc.

™Surflan is a trademark of DowElanco.

Trim and Edge Treatments

This product can be used to control weeds for trimming and edging around many structures, including buildings, sidewalks, roads, patios, fences, and gravel and bark mulch beds. It can also be used to remove weeds around obstacles to mowing such as park benches, golf course markers, trees, light poles, sign posts, fence posts, etc.

Site Preparation

This product does not provide residual weed control.

After an area has been treated with this product, any ornamental species, bedding plant, turfgrass, and tree species (including Christmas trees) can be planted.

Delay mowing, clipping or tilling treated areas for 7 days to allow time for the product to move within the treated vegetation for most effective results. Where the treated vegetation will not be disturbed, planting may be done 1 day following treatment.

Post-Directed Applications

This product can be used for spot-spraying weeds found in shrub beds, ornamental plantings, ground covers, nurseries, Christmas tree plantings, forestry and similar sites.

Avoid spray contact with desirable plants. To avoid injury on desirable plants, prevent spray or drift contact with foliage, stems, bark or exposed nonwoody roots. Do not spray into, or over the top of, desirable plants, trees or shrubs.

Turfgrass Renovation

Seedbed preparation and seeding, sodding or sprigging of turfgrass species may be done 7 days following treatment of weeds or undesirable turf grasses. Where the treated vegetation will not be disturbed by seedbed preparation (tillage, aeration, power raking, etc.), seeding may be done 1 day following treatment. Ensure adequate seed/soil contact and follow a thorough watering schedule.

Greenhouse/Shadehouse

This product may be used to control weeds listed on this label which are growing in greenhouses and shadehouses. Desirable vegetation must not be present during application and air circulation fans must be turned off.

WEEDS CONTROLLED

Annual Weeds

Apply to actively growing annual grass and broadleaf weeds.

Allow at least 3 days after application before disturbing treated vegetation. After this period, the weeds may be mowed, tilled or burned.

When applied as directed under the conditions described, this product will control the following annual weeds:

Balsamapple	Bromes
Barley: little, wild	Buttercup
Barnyardgrass	Cheat
Bassia, fivehook	Chervil
Bedstraw, catchweed	Chickweed: jagged, mouseear
Bluegrass, annual	
Bluegrass, bulbous	Clovers

Cocklebur	Pigweeds
Crabgrass	Ragweed, common
Dwarf dandelion	Ragweed, giant
Falseflax, smallseed	Rocket, London
Fiddleneck	Rye
Flaxleaf fleabane	Ryegrass, Italian
Fleabane	Sandbur, field
Foxtail	Shattercane
Foxtail, Carolina	Shepherdspurse
Geranium, Carolina	Signalgrass, broadleaf
Goosegrass	Smartweed, Pennsylvania
Groundsel, common	Sowthistle, annual
Henbit	Spanishneedles
Horseweed/Marestail	Speedwell, corn
Kochia	Stinkgrass
Lambsquarters, common	Sunflower
Lettuce, prickly	Thistle, Russian
Morningglory	Spurry, umbrella
Mustards	Velvetleaf
Oats	Wheat
Panicum	Witchgrass
Pennycress, field	

Perennial Weeds

Apply to actively growing perennial weeds.

Allow at least 7 days after application before disturbing treated vegetation. After this period, the weeds may be mowed, tilled or burned.

Repeat treatments may be necessary to control weeds regenerating from underground parts or seeds.

When applied as directed under the conditions described, this product will control the following perennial weeds:

Alfalfa	Guineagrass
Alligatorweed	Horseneettle
Artichoke, Jerusalem	Horseradish
Bahiagrass	Johnsongrass
Bermudagrass	Kikuyugrass
Bindweed, field	Knapweed
Bluegrass, Kentucky	Lantana
Blueweed, Texas	Loosestrife, purple
Brackenfern	Lotus, American
Bromegrass, smooth	Maidencane
Broomsedge	Milkweed
Canarygrass, reed	Muhly, wirestem
Cattail	Mullein, common
Clovers	Napierrgrass
Cogongrass	Nightshade, silverleaf
Cutgrass, giant	Nutsedge: purple, yellow
Dallisgrass	Orchardgrass
Dandelion	Pampasgrass
Dock, curly	Paragrass
Dogbane, hemp	Phragmites
Fescues	

Quackgrass	Timothy
Reed, giant	Torpedograss
Ryegrass, perennial	Tules, common
Smartweed, swamp	Vaseygrass
Sweet Potato, wild	Waterprimrose
Thistle, Canada	Wheatgrass, western

Woody Brush and Trees

When applied as recommended under the conditions described, this product CONTROLS or PARTIALLY CONTROLS the following woody brush, plants and trees:

Alder	Manzanita
Ash	Maple: red, sugar, vine
Aspen, quaking	Monkey Flower*
Bearmat (Bearclover)	Oak
Birch	Persimmon*
Blackberry	Poison ivy
Broom: French, scotch	Poison oak
Buckwheat, California*	Poplar, yellow*
Cascara*	Raspberry
Catsclaw*	Rose, multiflora
Ceanothus*	Russian-olive
Chamise	Sage, black
Cherry: bitter, black, pin	Sagebrush, California
Coyote brush	Salmonberry
Creepier, Virginia*	Saltbush, Sea myrtle
Dewberry	Sassafras
Elderberry	Sourwood
Elm*	Sumac
Eucalyptus, bluegum	Sweetgum
Hasardia*	Swordfern*
Hawthorn	Tallowtree, Chinese
Hazel	Tan oak
Honeysuckle	Thimbleberry
Kudzu	Tobacco, tree*
Locust, black*	Trumpetcreeper
Madrone	Waxmyrtle, southern
	Willow

*Partial control

Apply this product when plants are actively growing and, unless otherwise directed, after full leaf expansion. Best results are obtained when application is made in late summer or fall after fruit formation.

In arid areas, best results are obtained when application is made in the spring to early summer when brush species are at a high moisture content.

Symptoms may not appear prior to frost or senescence with fall treatments.

Allow 7 or more days after application before tillage, mowing or removal. Repeat treatments may be necessary to control plants regenerating from underground parts or seed. Applications to undesirable deciduous species containing some autumn color development is acceptable provided no major leaf drop has occurred. Reduced performance may result if fall treatments are made following a killing frost.

LIMIT OF WARRANTY AND LIABILITY

This Company warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes set forth in the Complete Directions for Use label booklet ("Directions") when used in accordance with those Directions under the conditions described therein. NO OTHER EXPRESS WARRANTY OR IMPLIED WARRANTY OF FITNESS FOR PARTICULAR PURPOSE OR MERCHANTABILITY IS MADE. This warranty is also subject to the conditions and limitations stated herein.

Buyer and all users shall promptly notify this Company of any claims whether based in contract, negligence, strict liability, other tort or otherwise.

Buyer and all users are responsible for all loss or damage from use or handling which results from conditions beyond the control of this Company, including, but not limited to, incompatibility with products other than those set forth in the Directions, application to or contact with desirable vegetation, unusual weather, weather conditions which are outside the range considered normal at the application site and for the time period when the product is applied, as well as weather conditions which are outside the application ranges set forth in the Directions, application in any manner not explicitly set forth in the Directions, moisture conditions outside the moisture range specified in the Directions, or the presence of products other than those set forth in the Directions in or on the soil, crop or treated vegetation.

THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE LIMIT OF THE LIABILITY OF THIS COMPANY OR ANY OTHER SELLER FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT (INCLUDING CLAIMS BASED IN CONTRACT, NEGLIGENCE, STRICT LIABILITY, OTHER TORT OR OTHERWISE) SHALL BE THE PURCHASE PRICE PAID BY THE USER OR BUYER FOR THE QUANTITY OF THIS PRODUCT INVOLVED, OR, AT THE ELECTION OF THIS COMPANY OR ANY OTHER SELLER, THE REPLACEMENT OF SUCH QUANTITY, OR, IF NOT ACQUIRED BY PURCHASE, REPLACEMENT OF SUCH QUANTITY. IN NO EVENT SHALL THIS COMPANY OR ANY OTHER SELLER BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES.

Buyer and all users are deemed to have accepted the terms of this LIMIT OF WARRANTY AND LIABILITY which may not be varied by any verbal or written agreement.

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

EPA Reg. No. 524-436

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In case of an emergency involving this product,
Call Collect, day or night, (314) 694-4000.

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