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**Complete Directions**

Reg. No. 524-308-AA  
AVOID CONTACT WITH FOLIAGE, GREEN STEMS, OR FRUIT OF CROPS, DESIRABLE PLANTS AND TREES, SINCE SEVERE INJURY OR DESTRUCTION MAY RESULT.

This product has been approved for use in California except as stated otherwise on page 118.

1989-2-1989-1-897.10-004.06-59-93/53

Read each of these sections of this label for essential product performance information.

**USE THESE CONVENIENT SECTION MARKERS.**



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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.

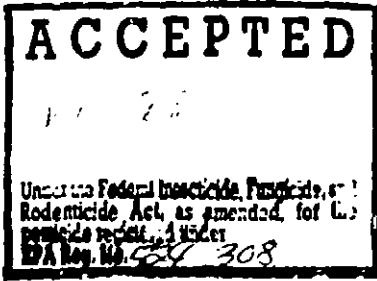
**LIMIT OF WARRANTY AND LIABILITY**

(Not applicable to consumer applications applied by the homeowner for residential purposes as permitted by the supplemental labeling for one-quart contain. etc.)

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 these 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 expressly 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 as 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.

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**Attain.**

Artichoke (Jerusalem),  
 Asparagus, Barley,  
 Beans, Edible (all),  
 Beet Greens, Beets (red, sugar),  
 Berries and Small Fruit,  
 Broccoli, Cabbage,  
 Carrot, Cauliflower, Celery,  
 Chicory, Corn, Cotton, Cucumber, Eggplant,  
 Forage Grasses,  
 Forage Legumes, Garlic, Gourds, Horseradish,  
 Kala, Lentils, Lettuce, Melons,  
 Mustard Greens, Oats,  
 Onions, Onions, Peas, Peanuts,  
 Peas (all), Peppers, Pineapple,  
 Potato (Irish, sweet), Pumpkins,  
 Radish, Rice, Rutabagas, Sorghum (milo),  
 Soybeans, Spinach, Squash (Summer, Winter),  
 Sugarbeets, Tomatoes, Tomatoes, Watercress,  
 Watermelons, Wheat

**BEST AVAILABLE COPY**

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**PRECAUTIONARY STATEMENTS**

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**Hazards to  
Humans and Domestic Animals**

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Keep out of reach of children.

**WARNING!**

**CAUSES EYE IRRITATION.  
HARMFUL IF SWALLOWED.  
MAY CAUSE SKIN IRRITATION.**

Do not get in eyes, on skin or on clothing.

Wash thoroughly after handling.

**FIRST AID: IF IN EYES,** immediately flush with plenty of water for at least 15 minutes. Call a physician.

**IF ON SKIN,** immediately flush with plenty of water. Remove contaminated clothing. Wash clothing before reuse.

**IF SWALLOWED,** this product will cause gastrointes-  
tinal tract irritation. Immediately dilute by swallowing  
water or milk. Call a physician.

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

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**Environmental Hazards**

Do not apply directly to water or wetland (swamps, bogs,  
marshes or potholes.) Do not contaminate water by clean-  
ing of equipment or disposal of wastes.

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**Physical or Chemical Hazards**

Spray solutions of this product should be mixed, stored  
and applied only in stainless steel, aluminum, fiberglass,  
plastic and 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, weld, s torch, lighted cigarette or  
other ignition source.

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**ACTIVE INGREDIENT**

*Isopropylamine salt of glyphosate	41.0%
<b>INERT INGREDIENTS</b>	59.0%
	100.0%

\*Contains 480 grams per litre or 4 pounds of the active  
ingredient isopropylamine salt of N-(phosphonomethyl)  
glycine per U.S. gallon. Equivalent to 356 gram\* per  
litre or 3 pounds per U.S. gallon of the acid, glyphosate.

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Product protected by  
U.S. Pat. No. 3,799,758 and  
U.S. Pat. No. 4,405,531.  
Other patents pending.

No license granted under any non-U.S. patent

©MONSANTO COMPANY 1988

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

MONSANTO COMPANY  
AGRICULTURAL PRODUCTS  
ST. LOUIS, MISSOURI 63167 U.S.A.



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**GENERAL INFORMATION**

DO NOT APPLY THIS PRODUCT USING AERIAL SPRAY EQUIPMENT EXCEPT UNDER CONDITIONS AS SPECIFIED WITHIN THIS LABEL.

Roundup® herbicide, a water soluble liquid, mixes readily with water to be applied as a foliar spray for the control or destruction of most herbaceous plants. It may be applied through most standard industrial or field-type sprayers after dilution and thorough mixing with water in accordance with label instructions.

This product moves through the plant from the point of foliage 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 down 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 above ground growth and deterioration of underground plant parts.

Unless otherwise specified on this label, delay application until vegetation has emerged and reached the stages described for control of such vegetation under the "Weeds Controlled" section of this label. Unemerged plants arising from unattached underground rhizomes or root stocks of perennials will not be affected by the spray and will continue to grow. For this reason, best control of most perennial weeds is obtained when treatment is made at late growth stages approaching maturity.

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No changes will be made on the pages which are not included.

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See the following "Cropping Systems" sections for specific recommended uses.

EXTREME CARE MUST BE EXERCISED TO AVOID CONTACT OF SPRAY WITH FOLIAGE, GREEN STEMS OR FRUIT OF DESIRABLE CROPS, PLANTS, TREES OR OTHER DESIRABLE VEGETATION SINCE SEVERE DAMAGE OR DESTRUCTION MAY RESULT.

Repeat treatments may be necessary to control weeds regenerating from underground parts or seed. Except as otherwise specified on this label, repeat treatments must be made before the crop emerges in accordance with the instructions of this label.

Except as otherwise specified in a crop section of this label, the combined total of all treatments must not exceed 8 quarts per acre of this product per year.

Do not plant subsequent crops other than those on the label for 30 days following application.

For other cropping systems, except following spot treatment in forage grasses and legumes, do not harvest or feed treated crops for 8 weeks after application. Allow 14 days following spot treatment or selective equipment use before grazing domestic livestock or harvesting forage grasses and legumes.

When applied as directed for Cropping Systems under the conditions described, this product controls annual and perennial weeds listed on this label, prior to the emergence of direct seeded crops or prior to transplanting of crops listed on this label.

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ALFALFA*	KALE
ARTICHOKE	LENTILS
JERUSALEM	LETTUCE
ASPARAGUS*	LOGANBERRY
BARLEY*	MELONS***
BEANS (AM)	MUSTARD GREENS
BEEF GREENS	OATS*
BEETS (Red, Sugar)	OKRA
BLACKBERRY	OLALLIEBERRY
BLUEBERRY	ONION
BOYSENBERRY	PEANUTS
BROCCOLI	PEAS (AM)
CABBAGE	PEPPER***
CARROT	PINEAPPLE****
CAULIFLOWER	POTATO (Irish, Sweet)
CELERY	PUMPKIN***
CHICORY	RADISH
CORN (AM)*	RASPBERRY (Black, Red)
COTTON*	RICE**
CRANBERRY	RUTABAGA
CUCUMBER***	SORGHUM (White)
CYRANT	SOYBEANS*
DEWBERRY	SPINACH
EGGPLANT***	SQUASH*** (Summer, Winter)
ELDERBERRY	TOMATLO***
FORAGE GRASSES*	TOMATOES****†
FORAGE LEGUMES*	TURNTIPS
GARLIC***	WATERMELON***
GOOSEBERRY	

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CORN  
MORNINGGLORY  
NICKLEBERRY

WHEAT

\*Spot treatment may be applied to these crops.

\*\*Do not treat rice fields or lawns when the fields contain flood water.

\*\*\*Apply only prior to planting. Allow at least 3 days between application and planting.

\*\*\*\*Do not feed or graze treated penicillate forage following application.

† Use is restricted to erect seeded crops only.

Spot Treatment (Only those crops with \*\*\* can be spot treated.)—Application to growing crops must be made prior to heading of small grains and rice, and not later than the beginning of corn, and opening on cotton.

For forage grasses and forage legumes see "Spot Treatment" in the "Pastures" section of "Cropping Systems" in this label.

For dilution and rate of application using pump or hand-held equipment, see "Mixing, Additives and Application Instructions" and "Weeds Controlled" sections of this label.

NOTE: FOR FORAGE GRASSES AND FORAGE LEGUMES, NO MORE THAN ONE-TENTH OF ANY ACRE SHOULD BE TREATED AT ONE TIME. FOR ALL OTHER CROPS, DO NOT TREAT MORE THAN 10 PERCENT OF THE TOTAL FIELD AREA TO BE HARVESTED.

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THE CROP RECEIVING SPRAY IN TREATED AREA WILL BE KILLED. TAKE CARE TO AVOID DRIFT OR SPRAY OUTSIDE TARGET AREA FOR THE SAME REASON.

Selective Equipment—This product may be applied through recirculating sprayers, shielded applicators, or other applicators in cotton and soybeans. Shielded and other applicators may also be used in rice crops and grasses. Other applicators may be used in rutabagas, forage grasses and forage legumes, including pasture and sorghum crops.

See the "Selective Equipment" part of the "Application Equipment and Techniques" section of this label for information on proper use and calibration of this equipment.

Allow at least the following time intervals between application and harvest:

Cotton, Soybeans	7 days
Apples, Avocado, Cherry, Citrus	
Grasses - <sup>er</sup>	
Rutabagas	14 days
Some fruit	17 days
Yut Crops	21 days
Sorghum (erect)	30 days

\*Do not use other applicators. Do not feed or graze treated rice fodder. Do not graze treated vegetation.

When applying this product prior to transplanting crops into plastic mulch, care must be taken to remove residues of this product from the plastic prior to transplanting. Residues can be removed by 1/2 inch natural rainfall or by applying water via a sprinkler irrigation system.



# Roundup

## Super Concentrate



# Grass & Weed Killer

- KILLS GRASSES AND WEEDS SYSTEMICALLY - ROOTS AND ALL
- DOES NOT HAVE SOIL ACTIVITY
- SUITABLE FOR USE AROUND FLOWER BEDS, TREES, SHRUBS, FENCES AND DRIVEWAYS
- USE TO PREPARE GARDEN SITES AND BENCHING LAIRS

Read the entire label before using this product for any purpose other than that indicated.

NOTICE: BUYER ASSUMES ALL RESPONSIBILITY FOR SAFETY AND USE NOT IN ACCORDANCE WITH DIRECTIONS IF THESE TERMS ARE NOT ACCEPTABLE. RETURN AT ONCE UNOPENED.

ACTIVE INGREDIENT	41.2%
INERT INGREDIENTS	58.8%
	100%

Keep out of reach of children.  
**WARNING!** Read precautions on back panel

NET 32 fl. oz. (1 qt)

887 17-000.14L-1

**MAKES UP TO 21 GALLONS**

Change to:

Covers up to 6300 square feet.

• **MAKES UP TO 21 GALLONS**

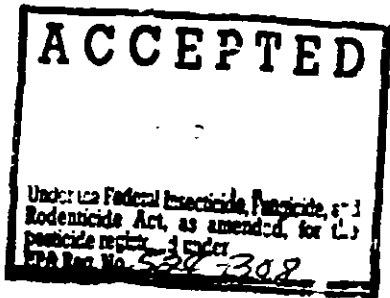
Add:

labeled

Change to:

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

Delete:



KEEP PEOPLE AND PETS OFF TREATED AREAS UNTIL SPRAY SOLUTION HAS DRIED.

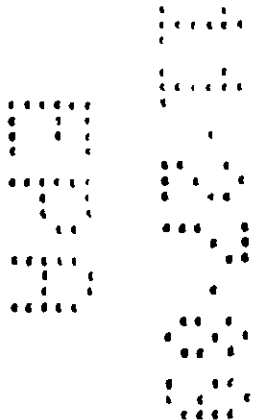
**DOMESTIC ANIMALS:** This product is considered to be relatively nontoxic to dogs and other domestic animals. However, ingestion of this product or large amounts of freshly sprayed vegetation may result in temporary gastrointestinal irritation (vomiting, diarrhea, colic, etc.). If such symptoms are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

**ADDITIONAL PRECAUTIONS**

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, lit cigarette or other ignition source.

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in any manner inconsistent with its labeling.



Roundup is a nonselective herbicide that is diluted and applied to the foliage of actively growing weeds as a spot or broadcast application. It is absorbed by the leaves and moves throughout the stem and roots to control the entire plant. Visible symptoms may require a week or more to appear, with burndown usually occurring in 2 to 4 weeks. Symptoms are a gradual wilting and yellowing of the sprayed plant followed by desiccation of both shoots and roots. This product has no herbicidal activity in the soil and will not wash or leach to affect nearby vegetation.

This product controls many weeds around buildings, vacant lots, storage and recreational areas, gravel or ground bark mulch, shade trees, ornamentals and shrubs; along fences, sidewalks, driveways and patios; and prior to planting turfgrasses, shrubs, flower beds or vegetables listed on the label. When used as a spot treatment in lawns, all vegetation contacted will be damaged.

**THIS PRODUCT CAN INJURE OR DESTROY ALL VEGETATION CONTACTED. AVOID SPRAY DRIFT CONTACT WITH DESIRABLE LAWN GRASSES, FLOWERS, VEGETABLES, SHRUBS OR TREES. DO NOT CONTACT GREEN BARK OF TREES OR SHRUBS. IF DESIRABLE VEGETATION IS CONTACTED, WASH IMMEDIATELY WITH WATER.**

**Add:**

**For more product information, call toll-free 1-800-225-2883.**

**Storage and Disposal**

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

**STORAGE:**

Store this product in its original container and in a secured storage area.

In case of SPILL or LEAK, soak up with paper towels and discard in trash.

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**DISPOSAL**

To dispose of unused product, securely wrap original container in several layers of newspaper and discard in trash.

Empty container retains vapor and product residue. Observe all labeled safeguards until container is clean.

Do not reuse container. Rinse thoroughly before discarding in trash.

**WEEDS CONTROLLED**

When applied as recommended under the conditions described, Roundup controls many common weeds including the following:

**Annals**

- |                     |                         |
|---------------------|-------------------------|
| Barnyardgrass       | Ferngrass, field        |
| Bluegrass, annual   | Pigweed; redroot smooth |
| Chickweed           | Ragweed, common         |
| Crabgrass           | Ryegrass, annual        |
| Foxtail             | Sandbar, field          |
| Lambquarter, common | Shepherdspurse          |
| Lettuce, prickly    | Smartweed               |
| Mustard, taney      |                         |

**Perennials**

- |                     |                          |
|---------------------|--------------------------|
| Bahiagrass          | Johnsongrass             |
| Bermudagrass        | Nutsedge; purple, yellow |
| Bindweed, field     | Orchardgrass             |
| Bluegrass, Kentucky | Quackgrass               |
| Bromegrass, smooth  | Ryegrass, perennial      |
| Clover; red, white  | Thistle, Canada          |
| Dallisgrass         | Timothy                  |
| Dandelion           | Vaseygrass               |
| Fescue species      |                          |
| Fescue, tall        |                          |

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### Brush

Alder  
Blackberry  
Cherry  
Clematis  
Elderberry  
Honeysuckle  
Kudzu  
Oak

Poison Ivy  
Poison Oak  
Raspberry  
Rose, multiflora  
Sumac  
Trumpet creeper  
Willow

### MIXING AND SPRAYING

Do not apply this product through any type of irrigation system.

Hand-held Sprayers - Add 1-1/2 to 2-1/2 fluid ounces (3 to 5 tbsp.) of this product to 1 gallon of clean water. Use the higher recommended rate for control of listed perennials and brush. Use pump-up-type or hand-trigger-type sprayers. **USE OF HOSE-END SPRAYERS OR SPRINKLER-TYPE DEVICES MAY RESULT IN POOR AND/OR ERRATIC RESULTS.**

Ensure uniform and complete spray coverage, but do not spray plants to the point that the spray solution runs off. Use a coarse spray. Do not spray during windy conditions, as spray drift may cause damage to any vegetation contacted.

### WHEN TO APPLY

Apply to vigorously growing plants. Apply to annual weeds anytime after emergence. For best results, apply to perennial weeds after seedheads, flowers or berries appear. On woody brush or trees, apply after leaves have fully expanded. Applications made at less than the recommended stage of growth may result in reduced control. After mowing, clipping or tilling, allow weeds to

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regrow to the recommended growth stage before spraying this product.

Rainfall or watering within 6 hours after application can wash the product off plant foliage which may require retreatment. Delay mowing, clipping, tilling, planting or sodding of treated areas for at least 7 days after application. This allows time for this product to move within the plant for most effective results. **SINCE THIS PRODUCT DOES NOT WORK IN SOIL, RETREATMENTS WILL BE NECESSARY TO CONTROL NEW WEEDS EMERGING FROM SEED.**

One application will control most weeds listed. Symptoms on certain tough perennial weeds and woody brush and tree species may be slow to develop. If control is not achieved within 4 weeks, allow time for the sprayed weeds to regrow and make a repeat application. In some cases, control of woody brush and trees treated in the fall may not be fully apparent until the following season.

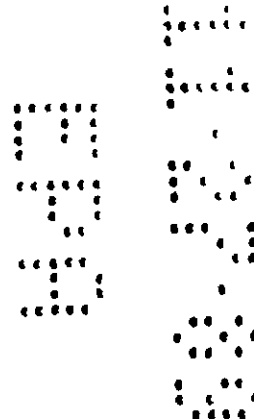
### LAWN RENOVATION

Best results are obtained when at least one mowing is stopped prior to treatment. This provides more leaf surface to intercept the spray. For areas where renovation and reseeding is desired, thorough spray coverage of all existing vegetation is necessary. Delay planting or sodding of treated areas for at least 7 days after application.

### ORNAMENTALS

Any ornamental species may be planted in treated areas 7 days or more after application. Apply this product as recommended to control undesirable vegetation growing around ornamentals, trees or shrubs. Avoid spray contact with any desirable plants. To avoid injury on desirable plants, prevent spray or drift contact with foliage, stems or green bark. Do not spray into, or over the top of, growing ornamentals.

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**TREES (Apple, Citrus, Nut, Pear)  
AND GRAPEVINES**

Apply this product to control undesirable plants growing around these trees and vines. Spray contact, other than with mature bark of the main trunk, can injure the tree or vine. Allow 21 days between application and harvest.

**BERRIES, SMALL FRUIT & VEGETABLE  
GARDENS**

The following vegetables may be planted in treated areas 7 days or more after application: asparagus, beans, beet greens, beets, blackberry, blueberry, boysenberry, broccoli, cabbage, carrot, cauliflower, celery, chicory, corn, cranberry, cucumber, currant, dewberry, elderberry, eggplant, garlic, gourds, gooseberry, horseradish, huckleberry, Jerusalem artichoke, kale, lentils, lettuce, loganberry, melons, mustard greens, okra, ollaloberry, onion, parsnips, peas, peppers, Irish and sweet potatoes, pumpkin, radish, raspberry (black, red), rutabagas, spinach, squash (summer, winter), strawberry, tomato, tomato watercress, watermelon and turnips. In the treated area, do not plant any vegetables not listed on this label for one year following application. Do not apply this product in or around growing vegetables.

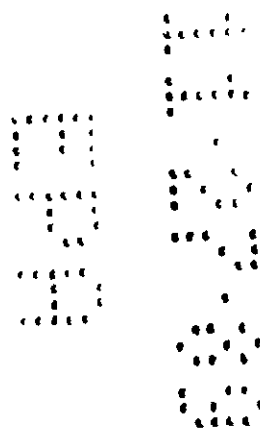
\*Use an estimate of equivalent to direct contact application only

**CLEANING EQUIPMENT**

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

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



# Roundup, Super Concentrate

Nonselective herbicide for lawn and garden use. Avoid spray on desirable plants as severe injury or destruction may result.

Read "NOTICE" in next paragraph before buying or using. If terms are not acceptable, return at once unopened.

**NOTICE: BUYER ASSUMES ALL RESPONSIBILITY FOR SAFETY AND USE NOT IN ACCORDANCE WITH DIRECTIONS IN THIS LABELING.**

**REFORMULATION OR REPACKAGING IS PROHIBITED.**

**ACTIVE INGREDIENT:**

~~isopropylamine salt of glyphosate~~ 41.0%

**INERT INGREDIENTS:** 59.0%

100.0%

\*Contains 480 grams per litre or 4 pounds of the active ingredient, ~~isopropylamine salt of N-(phosphonomethyl)glycine~~ per litre-gallon. Equivalent to 356 grams per litre or 3 pounds per U.S. gallon of the acid, glyphosate.

This product is protected by U.S. Pat. No. 3,799,758 and 4,406,531. Other patents pending.

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Change to:

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

Change to:

per U.S. gallon of glyphosate, N-(phosphonomethyl) glycine, in the form of its isopropylamine salt.

Change to:

1989

Add:

No license granted under any non-U.S. patent.

1989

Carefully read and follow detailed instructions in pamphlet.

**PRECAUTIONARY STATEMENTS**

Hazards to humans and Domestic Animals

Keep out of reach of children

**WARNING! CAUSES EYE IRRITATION. HARMFUL IF SWALLOWED. MAY CAUSE SKIN IRRITATION.** Do not get in eyes, on skin or on clothing. Wash thoroughly after handling.

**FIRST AID IF IN EYES:** Immediately flush with plenty of water for at least 15 minutes.

**Get medical attention**

**IF ON SKIN:** Immediately flush with plenty of water. Remove contaminated clothing. Wash clothing before reuse.

**IF SWALLOWED:** This product will cause gastrointestinal tract irritation. Immediately dilute by swallowing water or milk. **Get medical attention**

In case of an emergency involving this product, call Collect, day or night (314) 694-4800

**Environmental Hazards**

Do not apply directly to water or wetland (swamps, bogs, marshes or prairies). Do not contaminate water, equipment or disposal facilities.

**Physical or Chemical Hazards**

Spray solutions of this product should be mixed, stored and applied only in stainless steel, aluminum, fiberglass, plastic and 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. (See additional Precautions inside Pamphlet.)**

**Storage and Disposal**

Do not contaminate water, food, feed or seed by storage or disposal. **STORAGE:** Store this product in its original container and in a secured storage area in case of SPILL or LEAK seal up with paper towels and discard in trash. **DISPOSAL:** To dispose of unused product, securely wrap original container in several layers of newspaper and discard in trash. Empty container retains vapor and product residue. Observe all labeled safeguards until container is discarded. Do not reuse container. Rinse thoroughly before discarding in trash.

Product protected by U.S. Pat. Nos. 3,799,756 and 4,405,531. Other patents pending.

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AGRICULTURAL PRODUCTS  
ST. LOUIS, MISSOURI 63167

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© MONSANTO COMPANY 1988  
EPA Est. 524-LA-1

EPA Reg. No. 524-308-4A

887.17-000.14-30X2

**Add:**

**OR INHALED**

**Add:**

**Avoid breathing vapor or spray mist.**

**Change to:**

**Get medical attention.**

**Add:**

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

**Change to:**

**when disposing of equipment wash waters.**

**Add:**

**No license granted under any non-U.S. patent.**

**Change to:**

**1989**



Carefully read and follow detailed instructions in pamphlet.  
**PRECAUTIONARY STATEMENTS**

**Hazards to Humans and Domestic Animals**

Keep out of reach of children.

**WARNING!** CAUSES EYE IRRITATION. HARMFUL IF SWALLOWED. MAY CAUSE SKIN IRRITATION. Do not get in eyes or on face or clothing. Wash thoroughly after handling. FIRST AID: IF IN EYES, immediately flush with plenty of water for at least 15 minutes. Get medical attention.

IF ON SKIN, immediately flush with plenty of water. Remove contaminated clothing. Wash clothing before reuse.

IF SWALLOWED, the product or its solution should be diluted with water and immediately drunk by swallowing water or milk. Get medical attention.

In case of an emergency involving this product, Call Collect, day or night, (214) 694-4000.

**Environmental Hazards**

Do not spray directly to water or wetland (streams, bays, marshes or wetlands). Do not contaminate water by cleaning of equipment or disposal of wastes.

**Physical or Chemical Hazards**

Spray solutions of this product should be mixed, stored and applied only in stainless steel, aluminum, fiberglass, plastic and 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 DUMPS).

(SEE ADDITIONAL PRECAUTIONS INSIDE PAMPHLET)

(SEE PAMPHLET FOR STORAGE AND DISPOSAL)

This product protected by U.S. Patent Nos. 3,799,756 and 4,405,531. Other patents pending.



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AGRICULTURAL PRODUCTS  
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EPA Reg. No. 524-308-01  
EPA Est. 524-LA-1  
807.17-000.14-29C2

**Add:**

**OR INHALED**

**Add:**

**Avoid breathing vapor or spray mist.**

**Change to:**

**Get medical attention.**

**Add:**

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

**Change to:**

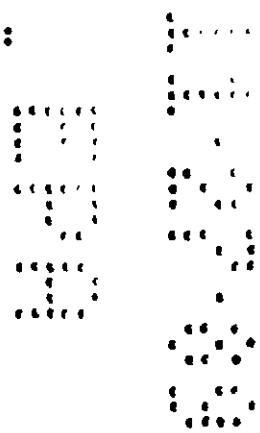
**when disposing of equipment wash waters.**

**Add:**

**No license granted under any non-U.S. patent.**

**Change to:**

**1989**



### SUPPLEMENTAL LABELING

**READ AND FOLLOW THE ENTIRE LABEL FOR ROUNDUP® HERBICIDE BEFORE PROCEEDING WITH THE USE DIRECTIONS CONTAINED IN THIS SUPPLEMENTAL LABELING.**

"Label" as used in this supplemental labeling refers to the label booklet for Roundup and this supplement.

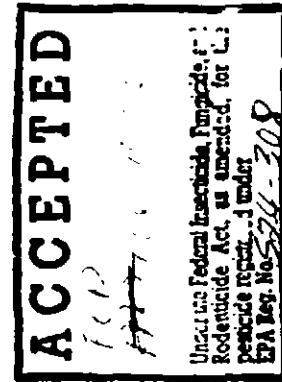
### ROUNDUP HERBICIDE BY MONSANTO

(EPA Reg. No. 524-308)

### ROUNDUP HERBICIDE FOR CONIFER RELEASE

**KEEP OUT OF REACH OF CHILDREN**

### WARNING!



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

Roundup® is a registered trademark of Monsanto Company.

---

### DIRECTIONS

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It is a violation of Federal law to use this product in any manner inconsistent with the labeling.

This label should be in the possession of the user at the time of the herbicide application.

---

### CONIFER RELEASE

---

Use 2 quarts of this product per acre as a broadcast spray for control and reduced competition from undesirable vegetation when releasing the following conifer species:

Douglas fir  
*Pseudotsuga menziesii*

Fir  
*Abies spp.*

\*Pine  
*Pinus spp.*

Spruce  
*Picea spp.*

Mix up to 10 fluid ounces of ENTRY II per acre with the recommended rate of ROUNDUP.



10/85

**Injury may occur to conifers treated for release, especially where spray patterns overlap or higher rates are applied. Damage can be accentuated if applications are made when conifers are actively growing, or are under stress from drought, flood water, insects or diseases.**

**When applied as recommended, this product will control or reduce competition from woody brush, trees or herbaceous weeds listed in the label booklet for this product.**

**Applications must be made after formation of final conifer resting buds in the fall or prior to initial bud swelling in the spring.**

**This product may be applied by ground or aerial application (helicopter only). When applied by ground, use the recommended rates in 10 to 60 gallons of spray solution per acre.**

**When applied by air, use the recommended rates in 5 to 15 gallons of spray solution per acre.**

**Read and carefully observe the label claims, cautionary statements, and all information on the label for ROUNDUP herbicide.**

**Read "LIMIT OF WARRANTY AND LIABILITY" in the label booklet for ROUNDUP before using this product. Those terms apply to this supplemental labeling and, if those are not acceptable, return the product unopened at once.**

**\*Includes all species except eastern white pine, loblolly pine, longleaf pine, shortleaf pine or slash pine.**

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AGRICULTURAL PRODUCTS  
ST. LOUIS, MISSOURI 63167**

# JAN/SAN™ III HERBICIDE by Monsanto

Keep out of reach of children.  
**WARNING!**

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

**WARNING! CAUSES EYE IRRITATION. HARMFUL IF SWALLOWED.**  
Do not get in eyes, on skin or on clothing. Wash thoroughly with soap and water after handling.

**FIRST AID: IF IN EYES,** immediately flush with plenty of water for at least 15 minutes. Get medical attention. **IF ON SKIN,** immediately flush with plenty of water. Remove contaminated clothing. Wash clothes before reuse. **IF SWALLOWED,** the product will cause gastric irritation and irritation. Immediately dilute by swallowing water or milk. Get medical attention.

In case of emergency involving this product, Call Collect, day or night, (314) 884-4000.

### Environmental Hazards

Do not contaminate water when disposing of equipment washwaters. Treatment of aquatic weeds can result in oxygen depletion or loss due to decomposition of dead plants. This oxygen loss can cause fish suffocation.

### Physical or Chemical Hazards

Spray solutions of this product should be mixed, stored and applied only in stainless steel, aluminum, fiberglass, plastic and 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, lit cigarette or other ignition source.

### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any manner inconsistent with its labeling.

## Storage and Disposal

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

**STORAGE:** Store this product in its original container and in a secured storage area.

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

Empty container retains vapor and product residue. Observe all labeled safeguards until container is destroyed.

Do not reuse container. Triple rinse container. Then puncture and dispose of in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**JAN/SAN™ III** is a nonselective herbicide that is applied as a foliar spray for the control or destruction of most emerged aquatic grasses, weeds and brush in ponds, drainage ditches and other aquatic sites.

This product also controls many weeds around buildings, vacant lots, storage and recreational areas, gravel or ground in driveways, shade trees, ornamentals and shrubs, along fences, sidewalks, driveways and paths and prior to planting turfgrasses or shrubs listed on the label.

This product is absorbed by the leaves and moves throughout the stem and roots to core of the entire plant. Visible symptoms may require a week or more to appear. Symptoms are a gradual wilting and yellowing of the sprayed plant followed by deterioration of both shoots and roots. This product has no herbicidal activity in the soil or water and will not wash or leach to affect nearby vegetation.

This product does not control plants which are either completely submerged or have a majority of their foliage under water. Treated water may be used for irrigation, recreation or domestic purposes.

**DO NOT APPLY THIS PRODUCT DIRECTLY TO WATER WITHIN 1/2 MILE UPSTREAM OF A POTABLE WATER INTAKE IN FLOWING WATER (E.g. RIVER, STREAM, ETC.) OR WITHIN 1/2 MILE OF A POTABLE WATER INTAKE IN A STANDING BODY OF WATER SUCH AS A LAKE, POND OR RESERVOIR. THIS RESTRICTION DOES NOT APPLY TO TERRESTRIAL APPLICATIONS MADE ADJACENT TO POTABLE WATER INTAKE.**

**DO NOT APPLY THROUGH ANY TYPE OF IRRIGATION SYSTEM.**

Consult local state fish and game agency and water control authorities before applying this product to public water. Permits may be required to treat such water.

**THIS PRODUCT CAN KILL OR DESTROY ALL VEGETATION CONTACTED. AVOID SPRAY DRIFT CONTACT WITH DESIRABLE LAWN GRASSES, FLOWERS, VEGETABLES, SHRUBS OR TREES. DO NOT CONTACT GREEN PARTS OF TREES OR SHRUBS. IF DESIRABLE VEGETATION IS CONTACTED, WASH IMMEDIATELY WITH WATER.**

USE IS UNCONTROLLED when applied as recommended under the

conditions described, this product controls many common weeds including the following:

**ANNUALS:** Chickweed, Crabgrass, Foxtail, Pigweed, prostrate smooth Pigweed (common), giant.

**PERENNIALS:** Alligatorweed, Bermuda grass, Bluegrass (Kernutol), Cocksfoot, Dallisgrass, Johnsongrass, Proso millet, Thistle (Canada), Waterhyacinth.

**BRUSH AND TREES:** Kudzu, Maple, Oak, Poison Ivy.

**MIXED AND SPRAYING:** Hand-held sprayer: and 1 1/3 to 2 2/3 fluid ounces (2-4 fluid) of this product to 1 gallon of clean water. For best results, use the higher recommended rate for hard-to-control grasses, brush and trees. One application will control most weeds. If certain hard-to-control weeds are not completely killed within 4 weeks, repeat application. Use pump-up-type sprayers. USE OF HOSE-END SPRAYERS OR SPRINKLER-TYPE DEVICES MAY RESULT IN POOR AND/OR ERRATIC RESULTS.

Ensure uniform and complete spray coverage, but do not spray plants to the point that the spray solution runs off. Use a coarse spray. Do not spray during windy conditions, as spray drift may cause damage to any vegetation contacted.

**WHEN TO APPLY:** Apply to vigorously growing plants. Apply to annual weeds anytime after emergence. For best results on perennial weeds, apply after seedheads, flowers or berries appear. On woody brush or trees, apply after leaves have fully expanded. Applications made at less than the recommended stage of growth may result in reduced control. Where mowing, cutting or other mechanical methods are used, apply to the recommended growth stage before spraying this product.

Rainfall or watering occurring within 8 hours after application may reduce effectiveness. Heavy rainfall or irrigation within 2 hours after application may wash the product off the foliage and a repeat treatment may be required. Delay mowing, cutting or otherwise disturbing treated areas for at least 7 days after application. This allows time for this product to move within the plant for the most effective results.

Floating mats of vegetation may require retreatment. If wash-off of sprayed foliage by wave action occurs within 8 hours of application, then retreatment may be required. Do not retreat within 24 hours following initial treatment. Make applications while moving upstream to prevent concentration of the product in water.

### 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 are responsible for all loss or damage from use or handling which results from conditions beyond the control of this

Company than those set forth in the directions on the label. This product is not intended for use on any plants or crops not listed on the label. The user of this product shall be responsible for obtaining all necessary permits, licenses or other approvals required by law for its use.

THE EXCLUSIVE LIABILITY AND ALL LOSS OR DAMAGE, INCLUDING REASONABLE ATTORNEY'S FEES, SHALL BE LIMITED TO THE AMOUNT OF THE PURCHASE PRICE OF SUCH QUANTITY OF THIS PRODUCT. THIS WARRANTY IS VOID IF THE PRODUCT IS USED IN A MANNER NOT RECOMMENDED BY THE COMPANY OR IF THE USER DOES NOT FOLLOW THE DIRECTIONS ON THE LABEL.

Buyer and all users are responsible for all loss or damage from use or handling which results from conditions beyond the control of this

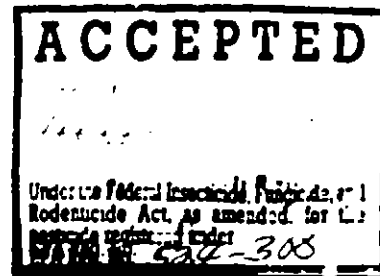
ACTIVE INGREDIENT: Glyphosate, isopropylamine salt 52.5%

\*Contains 48% glyphosate (96% concentration) U.S. gallon of concentrate

Product (not for sale) in 1-gallon containers. The treatment

EPA Est. 524 EPA Reg. No. C MONSANTO

MONSANTO AGRICULTURAL CHEMICALS DIVISION ST. LOUIS, MO 63166





ACCEPTED  
Under the Federal Insecticide, Fungicide, and  
Rodenticide Act, as amended, for the  
pesticide registered under  
EPA Reg. No. 536-308

~~For control of annual and perennial  
weeds in reduced tillage systems.~~ →

REPLACE WITH:

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

EPA Reg. No. 524-308

Complete Directions for Use

Roundup® is a registered trademark of Monsanto  
Company

1989-1 897-15-000-07-53

REPLACE WITH:

1990-1

897.15-000.08/53



INSERT NEW PAGE 2.

**NEW PAGE 2:**

For control of annual and perennial weeds in reduced tillage systems in Colorado, Idaho, Kansas\*, Minnesota\*, Montana, Nebraska\*, North Dakota, Oregon\*, South Dakota, Washington\*, and Wyoming.

**\* COUNTY RESTRICTIONS**

This product can only be used in certain counties in Kansas, Minnesota, Nebraska, Oregon, and Washington. See the following sections for county use restrictions for these states.

In **KANSAS** and **NEBRASKA**, this product can be used in all counties **EXCLUDING** those listed below:

**KANSAS**

**Nebraska**

Allen	Leavenworth	Antelope	Merrick
Anderson	Linn	Boone	Nance
Atchinson	Lyon	Burt	Nemaha
Bourbon	Marion	Butler	Nuckolls
Brown	Marshall	Cass	Otoe
Chase	Miami	Cedar	Pawnee
Cherokee	Montgomery	Clay	Pierce
Clay	Morris	Colfax	Platte
Coffey	Nemaha	Cuming	Polk
Crawford	Neosho	Dakota	Richardson
Dickinson	Osage	Dixon	Saline
Doniphan	Pottawatomie	Dodge	Sarpy
Douglas	Riley	Douglas	Saunders
Franklin	Shawnee	Fillmore	Seward
Gearry	Wabaunsee	Gage	Stanton
Jackson	Washington	Hamilton	Thayer
Jefferson	Wilspr	Jefferson	Thurston
Johnson	Woodson	Johnson	Washington
Labette	Wyandotte	Knox	Wayne
		Lancaster	York
		Madison	

In **MINNESOTA**, **OREGON** and **WASHINGTON**, this product can be used **ONLY** in those counties listed below:

**MINNESOTA**

**OREGON**

**WASHINGTON**

Becker	Red Lake	Baker	Adams	Pend Oreille
Beltrami	Roseau	Crook	Asotin	Spokane
Clay	Wadena	Deschutes	Benton	Stevens
Clearwater	Wilkin	Gilliam	Chelan	Walla Walla
Hubbard		Grant	Columbia	Whitman
Kittson		Hood River	Douglas	Yakima
Lake of the Woods		Jefferson	Ferry	
Mahnomen		Morrow	Franklin	
Marshall		Sherman	Garfield	
Norman		Umatilla	Grant	
Ottertail		Union	Kittitus	
Pennington		Wallowa	Klickitat	
Polk		Wasco	Lincoln	
		Wheeler	Okanagan	

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

#### 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 these 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.

**DELETE  
INSERT:  
SEE INDIVIDUAL CONTAINER LABEL FOR  
REPACKAGING LIMITATIONS.**

27105

**PRECAUTIONARY STATEMENTS**  
**Hazards to Humans and Domestic Animals**

Keep out of reach of children

**WARNING!**

CAUSES EYE IRRITATION

HARMFUL IF SWALLOWED

MAY CAUSE SKIN IRRITATION

Do not get in eyes, on skin or on clothing

Wash thoroughly with soap and water after handling

**FIRST AID: IF IN EYES,** immediately flush with plenty of water for at least 15 minutes. Get a physician.

**IF ON SKIN,** immediately flush with plenty of water. Remove contaminated clothing. Wash clothing before reuse.

**IF SWALLOWED** this product will cause gastro-intestinal tract irritation. Immediately dilute by swallowing water or milk. Get a physician.

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

OR INHALED.

Avoid breathing vapor or spray mist.

Get medical attention.

Get medical attention.

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

**Environmental Hazards**

Do not apply directly to water or wetland (swamps, bays, marshes or baltinas). Do not contaminate water by cleaning of equipment or disposal of wastes.

when disposing of equipment washwaters.

**Physical or Chemical Hazards**

Spray solutions of this product should be mixed, stored

and applied only in stainless steel, aluminum, fiberglass, enamel and 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.

<b>ACTIVE INGREDIENT:</b>	
*Isopropylamine salt of glyphosate.....	41.0%
<b>INERT INGREDIENTS:</b> .....	59.0%
	100.0%

**REPLACE WITH:**

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

\*Contains 480 grams per litre or 4 pounds of the active ingredient isopropylamine salt of N-(phosphonomethyl) glycine per U.S. gallon. Equivalent to 354 grams per litre or 3 pounds per U.S. gallon of the acid, glyphosate.

**REPLACE WITH:**

\*Contains 480 grams per litre or 4 pounds per U.S. gallon of the active ingredient glyphosate, in the form of its isopropylamine salt. Equivalent to 354 grams per litre or 3 pounds per U.S. gallon of the acid, glyphosate.

Product is protected by U.S. Pat. No. 3,799,758 and U.S. Pat. No. 4,405,531. Other patents pending.

No license granted under any non-U.S. patent.

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

DELETE

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AGROPHIL PRODUCTS  
ST. LOUIS, MISSOURI, 63167 U.S.A.



**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in any manner inconsistent with its labeling

**Storage and Disposal**

Do not contaminate water, foodstuffs, seed or feed 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.

Empty container retains vapor and product residue. Observe all labeled safeguards until container is cleaned, reconditioned or destroyed.

Do not reuse container. Return empty container per the Monsanto container return program. If not returned through return program, then puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**GENERAL INFORMATION**

**DO NOT APPLY THIS PRODUCT USING AERIAL SPRAY EQUIPMENT EXCEPT UNDER CONDITIONS AS SPECIFIED WITHIN THIS LABEL.**

*Roundup®-RT herbicide*, a water soluble liquid, mixes readily with water to be applied as a foliar spray for the control or destruction of most herbaceous plants. It may

**REPLACE WITH: This product,**

be applied through most standard industrial or field-type sprayers after dilution and thorough mixing with water in accordance with label instructions.

This product moves through the plant from the point of foliage 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 down activity of this product and delay visible 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.

Unless otherwise specified on this label, delay application until vegetation has emerged and reached the stages described for control of such vegetation under the "WEEDS CONTROLLED" section of this label. Unemerged plants arising from unattached underground rhizomes or root stocks of perennials will not be affected by the spray and will continue to grow. For this reason, best control of most perennial weeds is obtained when treatment is made at late growth stages approaching maturity.

Always use the higher rate of this product per acre within the recommended range when (1) weed growth is heavy or dense, or (2) weeds are growing in an undisturbed (noncultivated) area.

Do not treat weeds under poor growing conditions such as drought stress, disease or insect damage. As reduced weed control may result, reduced results may also occur when treating weeds heavily covered with dust.

8  
This product is recommended for control of emerged weeds prior to establishment of tobacco crops. Large amounts of green or decaying vegetation left standing or incorporated into the soil may enhance the development of disease in newly planted crops. This may result in poor emergence and / or stands, especially under cool and / or wet conditions.

Spraying early to control young weeds before dense stands develop or light cultivation to assist weed decay will favor preparation of suitable seedbeds.

In reduced tillage and no-till systems, ensure good seed to soil contact and proper seeding depth.

Reduced control may result when applications are made to annual or biennial weeds that have been mowed, grazed, or cut, and have not been allowed to regrow to the recommended stage for treatment.

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 subsequent residual weed control, follow a label-approved herbicide program. 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.

For best results, spray coverage should be uniform and complete. Do not spray weed foliage to the point of runoff.

Keep people and pets off treated areas until spray solution has dried to prevent transfer of this product onto desirable vegetation.

~~Registered trademark of Monsanto Company~~

**DELETE**

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

Do not allow the herbicide solution to mist, drip, drift, or splash onto desirable vegetation since minute quantities of this herbicide 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 lower 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, crops, or other unintended consequences. Keep containers closed to prevent spills and contamination.



## MIXING ADDITIVES AND APPLICATION INSTRUCTIONS

APPLY THESE SPRAY SOLUTIONS IN PROPERLY MAINTAINED AND CALIBRATED EQUIPMENT CAPABLE OF DELIVERING DESIRED VOLUMES. DO NOT APPLY UNDER WIND OR OTHER CONDITIONS WHICH ALLOW DRIFT TO OCCUR. HAND GUN APPLICATIONS SHOULD BE PROPERLY DIRECTED TO AVOID SPRAYING DESIRABLE PLANTS. NOTE: REDUCED RESULTS MAY OCCUR IF WATER CONTAINING SOIL IS USED, SUCH AS WATER FROM PONDS AND UNLINED DITCHES.

### MIXING

This product mixes readily with water. Mix spray solutions of this product as follows: Fill the mixing or spray tank with the required amount of water. Add the proper amount of this product (see "DIRECTIONS FOR USE" and "WEEDS CONTROLLED" sections of this label) near the end of the filling process and mix well. Remove hose from tank immediately after filling to avoid siphoning back into the carrier source. During mixing and application, foaming of the spray solution may occur. To prevent or minimize foam, avoid the use of mechanical agitators; place the filling hose below the surface of the spray solution, terminate by-pass and return lines at the bottom of the tank and, if needed use an approved anti-foam or defoaming agent.

### TANK MIXTURES

Always predetermine the compatibility of labeled tank mixtures of this herbicide with water carrier by mixing small proportional quantities in advance.

Mix labeled tank mixtures of the product with water as follows:

1. Place a 20 to 35 mesh screen or wetting basket over filling port.
2. Through the screen, fill the sprayer tank one-half full with water and start agitation.
3. If a wettable powder is used, make a slurry with the water carrier, and add it SLOWLY through the screen into the tank. Continue agitation.
4. If a flowable formulation is used, pre-mix one part flowable with one part water. Add diluted mixture SLOWLY through the screen into the tank. Continue agitation.
5. If an emulsifiable concentrate formulation is used, pre-mix one part emulsifiable concentrate with two parts water. Add diluted mixture slowly through the screen into the tank. Continue agitation.
6. Continue filling the sprayer tank with water and add the required amount of this product near the end of the filling.
7. Where nonionic surfactant is recommended, add this to the spray tank before completing the filling process.

8. Add individual formulations to the spray tank as follows: wettable powder, flowable, emulsifiable concentrate, drift control additive, water soluble liquid followed by surfactant.

Maintain good agitation at all times until the contents of the tank are sprayed. If the spray mixture is allowed to settle, thorough agitation is required to resuspend the mixture before spraying is resumed.

Keep by-pass line on or near bottom of tank to minimize foaming. Screen size in nozzle or line strainer should be no finer than 50 mesh. Carefully select proper nozzle to avoid spraying a fine mist. For best results with conventional ground application equipment use flat fan nozzles.

Clean sprayer and parts immediately after using this product by thoroughly flushing with water.

## ADDITIVES

### SURFACTANTS

Nonionic surfactants which are labeled for use with herbicides may be used. Do not reduce rates of this herbicide when adding surfactant. When adding additional surfactant or when label instructions require the use of additional surfactant, use 0.5 percent surfactant concentration (2 quarts per 100 gallons of spray solution) when using surfactants which contain at least 50 percent active ingredient or a 1 percent surfactant concentration (4 quarts per 100 gallons of spray solution) for those surfactants containing less than 50 percent active ingredient. Read and carefully observe surfactant cau-

tionary statements and other information appearing on the surfactant label.

### AMMONIUM SULFATE

The addition of 1 to 2 percent dry ammonium sulfate by weight (or lower equivalent), may increase the performance of Roundup RT herbicide tank mixtures on annual weeds. Add 8.5 to 17 pounds of dry ammonium sulfate per 100 gallons of spray solution. The improvement in performance may be apparent where environmental stress is a concern. Use the higher rate of ammonium sulfate with Roundup RT when treating large or dense populations of annual weeds. Low-quality ammonium sulfate may contain material that will not readily dissolve which could result in nozzle-tip plugging. To determine quality, perform a jar test by adding 1/3 cup of ammonium sulfate to 1 gallon of water and agitate for 1 minute. If undissolved sediment is observed, pre-dissolve the dry additive in water and filter prior to addition to the spray tank. If ammonium sulfate is added directly to the spray tank, add slowly with agitation. Adding too quickly may clog outlet lines. Ensure that ammonium sulfate is completely dissolved in the spray tank before adding herbicides. Thoroughly rinse the spray system with clean water after use to reduce corrosion. Observe all precautionary statements on the ammonium sulfate product labels.

**NOTE:** The use of ammonium sulfate as an additive does not preclude the need for additional surfactant. Do not use herbicide rates lower than recommended in this label.

Roundup is a trademark of Syngenta, Inc.

## APPLICATION EQUIPMENT AND TECHNIQUES

Do not apply this product through any type of irrigation system.

~~This product may be applied using either ground or aerial spray equipment.~~ Use extreme care to avoid misting or drifting of herbicide solution onto leaves, green stems or fruit of desirable crops, trees, or shrubs during both growing and dormant periods, since even very small quantities of spray can cause severe plant injury.

**GROUND APPLICATION:** Apply recommended rates of this product in 3 to 10 gallons of water per acre as a broadcast spray. For optimum spray distribution and coverage, use flat fan or low-volume nozzles. When using hood nozzles, space them no more than 40 inches apart and ensure double overlap of spray pattern. Refer to the manufacturer's recommendations for correct pressure and nozzle height above the target canopy. Avoid pressure and nozzles which produce fine droplets or mist.

Use appropriate marking devices to ensure uniform spray coverage and best results from the herbicide.

**AERIAL APPLICATION:** Apply the recommended rates of this product in 3 to 5 gallons of water per acre as a broadcast spray. **DO NOT APPLY DURING INVERSION CONDITIONS, WHEN WINDS ARE GUSTY OR UNDER ANY OTHER CONDITION WHICH WILL ALLOW DRIFT. DRIFT MAY CAUSE DAMAGE TO ANY VEGETATION CONTACTED TO WHICH TREATMENT WAS NOT INTENDED TO PREVENT INJURY TO ADJACENT DESIRABLE VEGETATION. APPROPRIATE BUFFER ZONES MUST BE MAINTAINED.**

Coarse sprays are less likely to drift; therefore, do not use nozzles or nozzle configurations which disperse spray as fine spray droplets. Do not angle nozzles forward into the airstream and do not increase spray volume by increasing nozzle pressure.

### SPRAYER CLEANUP

CLEAN THE ENTIRE SPRAYER AFTER APPLICATION OF THIS PRODUCT. Failure to clean the sprayer thoroughly may result in injury to desirable crops which are subsequently sprayed. First, add clean water to the tank and thoroughly rinse the entire sprayer system. Secondly, fill the tank with water and ammonia. Add 1 quart of household ammonia per 25 gallons of water. Pump enough solution through the hoses, boom and nozzles to fill these parts completely. Then fill the tank, close and leave for 24 hours before draining and rinsing thoroughly with water.

Application or use of other agricultural chemicals with the equipment used for this product may result in injury to desirable vegetation.

Thoroughly wash aircraft, especially landing gear, after each day of spraying to remove residues of this product accumulated during spraying or burn spills. **PROLONGED EXPOSURE OF THIS PRODUCT TO UNCOATED STEEL SURFACES MAY RESULT IN CORROSION AND POSSIBLE FAILURE OF THE PART. LANDING GEAR ARE MOST SUSCEPTIBLE.** The maintenance of an organic coating (paint) which meets aerospace specification MIL-C-38413 may prevent corrosion.

**Replace with:**  
This product may be applied using either aerial, conventional ground or hooded spray equipment.

## WEEDS CONTROLLED

This herbicide controls many annual and perennial grasses and broadleaf weeds.

### ANNUAL WEEDS

- Apply to actively growing grass and broadleaf weeds
- Allow at least 3 days after treatment before tillage
- For maximum agronomic benefit, apply when weeds are 6 inches or less in height
- To prevent seed production, applications should be made prior to seedhead formation
- This product does not provide residual control, therefore delay application until maximum weed emergence. Repeat treatments may be necessary to control later germinating weeds.
- Do not use these rates for weeds that have been mowed, grazed or cut, unless weed regrowth has occurred and weeds are vigorously growing
- Refer to the "TANK MIXTURES" portion of this section for control of additional broadleaf weeds.

### RECOMMENDED RATES AND WEEDS CONTROLLED

ANNUAL WEED SPECIES	MAXIMUM HEIGHT	RATE PER ACRE**
Festool <i>Setaria spp</i>	12"	8 oz
Barnyardgrass <i>Echinochloa crus-galli</i>	6"	12 oz
Blindweed, annual <i>Poa annua</i>		
Brome, downy* <i>Bromus tectorum</i>		
Chickweed, jagged <i>Helianthus umbellatum</i>		
Mustard, blue <i>Chorisandra tenuis</i>		
Mustard, tansy <i>Descurainia pennata</i>		
Mustard, tumble <i>Sisymbrium officinarum</i>		
Mustard, wild <i>Sinapis arvensis</i>		
Barley <i>Hordeum vulgare</i>	12"	12 oz
Rye <i>Secale cereale</i>		

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ANNUAL WEED SPECIES	MAXIMUM HEIGHT	RATE PER ACRE**
Sandbar, field <i>Conchus</i> spp	12"	12 oz
Shattercane <i>Sorghum bicolor</i>		
Stachys <i>Eragrostis cilanensis</i>		
Wheat <i>Triticum aestivum</i>	18"	12 oz
Morningglory <i>Ipsome</i> spp	3"	16 oz
Goatgrass, bulbous <i>Poa bulbosa</i>	6"	16 oz
Chest <i>Bromus setosus</i>		
Chickweed, common <i>Cerastium rigidum</i>		
Corn, volunteer <i>Zea mays</i>		
Groundsel, common <i>Senecio vulgaris</i>		
Horsetail/Marestail <i>Equisetum arvense</i>		

Goatgrass, jointed  
*Aegilops cylindrica*

Pennisetum, field Fennel <i>Thlaspi arvense</i>		
Rocket, London <i>Sisymbrium</i> spp		
Ryegrass, Italian <i>Lolium multiflorum</i>		
Shepherdspoon <i>Capella bursa-pastoris</i>		
Bullwasp <i>Ranunculus</i> spp	12"	16 oz
Cocklebur <i>Xanthox strumarum</i>		
Crochgrass <i>Digitaria</i> spp		
Quackgrass <i>Ergo canadensis</i>		
Fleabane, smooth <i>Camelina macrocarpa</i>		
Fescue, Carolina <i>Alopecurus carolinensis</i>		
Johnsongrass, seedling <i>Sorghum halepense</i>		
Lambquarters, common <i>Chenopodium album</i>		
Oats, wild <i>Avena fatua</i>		

ANNUAL WEED SPECIES	MAXIMUM HEIGHT	RATE PER ACRE**
Panicum, tall <i>Panicum dichotomiflorum</i>	12"	16 oz
Panicum, Texas <i>Panicum texanum</i>		
Pigweed, retrofract <i>Amaranthus retrofractus</i>		
Pigweed, smooth <i>Amaranthus hybridus</i>		
Witchgrass <i>Panicum capillare</i>		
Sedges, broadleaf <i>Brachiaria platyvalva</i>	5"	24 oz
Tanweed <i>Sida spaldingii</i>	2"	32 oz
Echinochloa, cutleaf <i>Oenothera laciniata</i>	12"	32 oz
Cenchrus, Carolina <i>Cenchrus carolinianum</i>		
Cenchrus <i>Echinochloa indica</i>		

Purley, Florida <i>Richtia scabra</i>		
Sicklepod <i>Cassia obtusifolia</i>		
Spinnervine <i>Abrus precatorius</i>		
Flora <i>Eriogonum spp</i>	12"	48 oz

\*For control in no-till systems, use 16 fluid ounces per acre

\*\*For those rates less than 32 ounces per acre, this product at rates up to 32 ounces per acre may be used where heavy weed densities exist.

## FALLOW AND REDUCED TILLAGE SYSTEMS

Use this product in fallow and reduced tillage systems for control of annual weeds prior to emergence of crops listed in this label. Refer to the "WEEDS CONTROLLED" section of this label for specific rates and instructions. This product may be applied using ground or aerial spray equipment. See the "APPLICATION EQUIPMENT AND TECHNIQUES" section of this label for instructions.

### TANK MIXTURES

- ROUNDUP RT plus BANVEL ■
- ROUNDUP RT plus 2,4-D AMINE ■
- ROUNDUP RT plus ATRAZINE or GLABEX™ ■

DO NOT APPLY BANVEL GLEAN OR 2,4-D AMINE TANK MIXTURES BY AIR IN CALIFORNIA.

The addition of Banvel in a mixture with this product may provide short-term residual control of selected weed species. Some crop injury may occur if Banvel is applied within 45 days of planting. Refer to the Banvel and 2,4-D labels for cropping restrictions and other use instructions.

These recommended tank mixtures may be applied using ground or aerial spray equipment. Refer to the "WEEDS CONTROLLED" section of this label for specific rates and instructions.

This product plus Banvel or 2,4-D amine will control the annual grasses and broadleaf weeds previously listed for this product alone at the indicated heights (except 8-ounce-per-acre applications) plus the following broadleaf weeds. For these weeds previously listed at 8 ounces of this product alone per acre, use the 12-ounce rate in these tank mixtures.

**NOTE:** Refer to the specific product labels for crop rotation restrictions and cautionary statements of all products used in tank mixtures. Some crop injury may occur if Banvel is applied within 45 days of planting. The addition of Banvel in a mixture with this product may provide short-term residual control of selected weed species.

Apply 12 to 16 ounces of this product plus 0.25 pound a.i. of Bonval, or 0.5 pound a.i. of 2,4-D amine plus 0.5 to 1 percent nonionic surfactant by total spray volume per acre to control dense populations of the following annual broadleaf weeds when less than 6 inches in height:

<b>Kochia*</b>	<b>Figweed, Redroot</b>
<i>Achys saturea</i>	<i>Amaranthus retrofractus</i>
<b>Lambquarters</b>	<b>Thistle, Russian</b>
<i>Chenopodium album</i>	<i>Salsola las</i>

**Lettuce, prickly**  
*Lactuca serriola*

\*Controlled with Bonval tank mixture only.

This product plus atrazine or Bladex plus nonionic surfactant tank mixture provides postemergence control of listed annual weeds in fallow and reduced tillage systems. In addition, this tank mixture will provide soil residual control of weeds listed on the atrazine and Bladex label.

For use only in Colorado, Kansas, Nebraska, Oklahoma, Oregon, South Dakota, and Washington.

#### ANNUAL WEEDS CONTROLLED

<b>Barnyardgrass</b>	<b>Mustard, tansy</b>
<i>Echinochloa crus-galli</i>	<i>Diarrhena pedata</i>
<b>Broom, dewey</b>	<b>Figweed</b>
<i>Bromus tectorum</i>	<i>Amaranthus</i> spp.
<b>Fatail, green</b>	<b>Sandbar, field</b>
<i>Setaria viridis</i>	<i>Cenchrus</i> spp.
<b>Kochia*</b>	<b>Stinkgrass</b>
<i>Achys saturea</i>	<i>Eragrostis ciliaris</i>
<b>Lambquarters</b>	<b>Thistle, Russian</b>
<i>Chenopodium album</i>	<i>Salsola las</i>
<b>Lettuce, prickly</b>	<b>Wheat</b>
<i>Lactuca serriola</i>	<i>Triticum aestivum</i>
	<b>Witchgrass</b>
	<i>Panicum capillare</i>

Apply 12 ounces of this product with 1 pound or less of the active ingredient atrazine per acre or 16 ounces of this product with 2 pounds or less of the active ingredient atrazine per acre, or 20 ounces of this product with 1 to 3 pounds of the active ingredient atrazine per acre, plus 0.5 to 1 percent nonionic surfactant by total spray volume. Apply 16 ounces of this product with 2.4 to 4 pounds of the active ingredient cyanazine or Bladex per acre plus 0.5 to 1 percent nonionic surfactant. Barnyardgrass will be suppressed at the 20-ounce-per-acre rate and will require up to 25 ounces per acre for control. In Oregon and Washington, do not exceed 1 pound of the active ingredient atrazine per acre. The addition



of 2 percent dry ammonium sulfate by weight (or liquid equivalent) or 17 pounds per 100 gallons of water is recommended to increase the performance of this product plus atrazine or Bladex plus nonionic surfactant tank mixtures.

Consult the atrazine or Bladex labels (90 DF 4L 80W) for use rates, soil type, planting, cropping and other restrictions, as well as other precautionary statements and use according to the most restrictive label.

These tank mixtures may be applied with ground or aerial equipment. See the "APPLICATION EQUIPMENT AND TECHNIQUES" section for instructions.

For ground application, apply in 3 to 10 gallons of water per acre.

For aerial application, apply 3 to 5 gallons of water per acre.

\*Bladex is a trademark of E. I. duPont de Nemours and Company.

#### POSTHARVEST APPLICATIONS

This product will provide control of existing weeds following grain harvest. Weeds should be allowed to regrow after damage incurred during harvest operations, and to recover from environmental stress, before application of this product. Weeds should be treated prior to the heading stage of annual grasses and before broadleaf weeds exceed 24 inches in height. Nonionic surfactant should be added at 0.5 to 1 percent by total spray volume. Use of ammonium sulfate is recommended and may improve performance on annual weeds.

Apply 12 ounces of this product per acre plus nonionic surfactant to control downy brome, green foxtail, stinkgrass and volunteer wheat.

To control hawks, lambsquarters, mustard, pigweed and Russian thistle, apply 16 ounces of this product plus 0.25 pounds a.i. of Banel or 0.5 pounds a.i. of 2,4-D amine plus nonionic surfactant per acre.

Apply 20 ounces of this product per acre plus nonionic surfactant to control barnyardgrass, sorghum, and witchgrass. Addition of 0.25 pound a.i. of Banel or 0.5 pound a.i. of 2,4-D amine plus nonionic surfactant to 20 ounces of this product will control prickly lettuce.

#### AID TO TILLAGE

This product used in conjunction with preplant and conventional fallow tillage practices will provide control of downy brome, volunteer wheat, taro mustard and foxtail.

Apply 8 fluid ounces per acre (1/2 pint) of this product plus 0.5 to 1 percent nonionic surfactant by total spray volume as a broadcast spray in 3 to 10 gallons of water per acre.

For ground application, apply in 3 to 10 gallons of water per acre. For aerial applications, apply in 3 to 5 gallons of water per acre. Do not mix with residual herbicides.

Application of this product should be made when weeds are actively growing and before weeds are greater than 6 inches tall. Application must be followed by conventional tillage practices before regrowth of the treated

plants occurs. Allow at least one day after application before tillage. Tillage must occur no later than 15 days following application.

This product does not provide residual weed control. Repeat treatments may be necessary to control subsequent germinating weeds.

Do not treat weeds under poor growing conditions such as drought stress, or disease or insect damage as reduced weed control may result. Reduced results also may occur when treating weeds heavily covered with dust, or when straw canopy covers the weeds.

#### PERENNIAL WEEDS

Apply this product as follows to control or destroy most perennial weeds.

**NOTE:** If weeds have been mowed or tined, do not treat until plants have resumed active growth and are at the recommended stages. Repeat treatments may be necessary to control weeds regenerating from underground parts or seed. Repeat treatments must be made prior to crop emergence.

The addition of 2 percent dry ammonium sulfate by weight or 17 pounds per 100 gallons of water may increase the performance of this herbicide on perennial weeds. The improvement in performance may be apparent where environmental stress is a concern. Refer to the "Mixing, Additives and Application Instructions" section of this label.

When applied as recommended under the conditions described, this product will CONTROL the following perennial weeds:

<i>Alopecurus</i>	<i>Quackgrass</i>
<i>Medicago sativa</i>	<i>Acrocyron repens</i>
<i>Johnsongrass</i>	<i>Ryegrass, perennial</i>
<i>Sorghum halepense</i>	<i>Lolium perenne</i>
<i>Rhizomatous, silverch</i>	<i>Thistle, Canada</i>
<i>Solanum elaeagnifolium</i>	<i>Cirsium arvense</i>

**Johnsongrass/Ryegrass, perennial**—Apply 1 to 3 quarts of this product per acre. In annual cropping systems, apply 1 to 2 quarts of this product per acre. Apply 1 quart of this product plus 0.5 to 1 percent nonionic surfactant by total spray volume in 5 to 10 gallons of water per acre. Use 2 quarts of this product when spraying 10 to 40 gallons of water per acre. In noncrop or areas where annual tillage (no-till), is not performed, apply 2 to 3 quarts of this product in 10 to 40 gallons of water per acre. For best results, apply to actively growing plants when most have reached the boot-to-head stage of growth. Allow 7 or more days after application before tillage. Do not tank-mix with residual herbicides when using the 1 quart per acre rate. See "DIRECTIONS FOR USE" and "MIXING, ADDITIVES AND APPLICATION INSTRUCTIONS" sections of this label for labeled uses and specific application instructions.

For burn-down of contacted vegetation, apply 1 pint per acre plus 0.5 to 1 percent nonionic surfactant in 5 to 10 gallons of water per acre before the plants reach a height

of 12 inches. For this use, allow at least 3 days after treatment before tillage.

**Quackgrass—In Annual Cropping Systems, or in Pastures and Sods Followed by Deep Tillage:** Apply 1 to 2 quarts of this product per acre. For the one-quart rate, apply 0.5 to 1 percent nonionic surfactant by total spray volume in 5 to 10 gallons of water per acre. For the 2-quart rate, apply in 10 to 40 gallons of water per acre. Do not tank mix with residual herbicides when using the 1 quart rate. Spray when quackgrass is 8 to 12 inches high and actively growing. Do not till between harvest and fall applications or in the fall or spring prior to spring application. Allow 3 or more days after application before tillage. In pastures or sods, for best results, use a moldboard plow.

**Quackgrass—Pasture or Sod or Other No-till Areas Where Deep Tillage is Not Planned Following Application:** Apply 2 to 3 quarts in 10 to 40 gallons of water per acre. Spray when the quackgrass is greater than 8 inches tall and actively growing. Do not till between harvest and fall application or in the fall or spring prior to spring application. Allow 3 or more days after application before tillage.

See "DIRECTIONS FOR USE" and "MIXING, ADDITIVES AND APPLICATION INSTRUCTIONS" sections of this pamphlet for labeled uses and specific application instructions.

**Thistle, Canada—**Apply 2 to 3 quarts of this product per acre. Apply to actively growing thistles when most are at or beyond the bud stage of growth. After harvest, mow

or tillage in the late summer or fall, allow at least 4 weeks for initiation of active growth and rosette development prior to the application of this product. Fall treatments must be applied before a falling frost. Allow 3 or more days after application before tillage. See "DIRECTIONS FOR USE" and "MIXING, ADDITIVES AND APPLICATION INSTRUCTIONS" sections of this pamphlet for labeled uses and specific application instructions.

**Other perennials listed on this label—**Apply 3 to 5 quarts of this product per acre. Apply when actively growing and when most have reached early head or early bud stage of growth. Allow 7 or more days after application before tillage.

See "DIRECTIONS FOR USE" and "MIXING, ADDITIVES AND APPLICATION INSTRUCTIONS" sections of this pamphlet for labeled uses and specific application instructions.

### TANK MIXTURES

When applied as directed under the conditions described, Roundup RT plus Banvel or 2,4-D amine will SUPPRESS or CONTROL the following perennial broad-leaf weed:

**Bindweed, field**  
*Convolvulus arvensis*

For suppression, apply 16 ounces of this product plus 0.5 lb. a.e. of 2,4-D amine or 0.25 lb. a.e. of Banvel, plus 0.5 to 1 percent nonionic surfactant by total spray volume in 3 to 10 gallons of water per acre for ground applications and 3 to 5 gallons of water per acre for aerial

applications. Applications should be delayed until maximum emergence has occurred and when vines are between 6 to 18 inches in length. These tank mixtures may be applied using aerial application equipment in fallow and reduced tillage systems only.

For control, apply 2 quarts of this product plus 0.5 pound a.i. of Barvel in 1 to 20 gallons of water per acre. At these rates, apply using ground application equipment only.

**CROPPING SYSTEMS**

See "GENERAL INFORMATION" and "APPLICATION EQUIPMENT AND TECHNIQUES" sections of this label for essential product performance information.

Repeat treatments may be necessary to control weeds regenerating from underground parts or seed. Except as otherwise specified on this label, repeat treatments must be made before the crop emerges, in accordance with the instructions of this label.

Except as otherwise specified in a crop section of this label, the combined total of all treatments must not exceed 8 quarts per acre of this product per year.

Do not plant subsequent crops other than those on this label for one year following application.

For other cropping systems, except following spot treatment in forage grasses and legumes, do not harvest or feed treated crops for 8 weeks after application. Allow 14 days following spot treatment or selective equipment use before grazing domestic livestock or harvesting forage grasses and legumes.

This product controls annual and perennial weeds listed on this label, prior to the emergence of these crops.

ALFALFA*	LENTILS
BARLEY*	OATS*
BEETS (Red, Sugar)	PEAS (All)
POTATO (Irish, sweet)	CORN (All)
COTTON*	FORAGE GRASSES*
FORAGE LEGUMES*	SORGHUM (Milo)
SOYBEANS*	WHEAT *

\*Spot treatments may be applied in these crops.

~~Spot Treatment (Only those crops with "\*" can be spot treated.)—Applications in growing crops must be made prior to heading of small grains and milo, initial pod set in soybeans, silking of corn, and boll opening on cotton.~~

~~For dilution and rates of application using boom or hand-held equipment, see the "APPLICATION EQUIPMENT AND TECHNIQUES" and "WEEDS CONTROLLED" sections of this label.~~

Insert in alphabetical order:

- BEANS (All)
- CARROT
- ONION
- RADISH

REPLACE WITH:

→ Spot Treatment (Only those crops with "\*" can be spot treated.)—Applications in growing crops must be made prior to heading of small grains and milo, initial pod set in soybeans, silking of corn, boll opening on cotton.

For forage grasses and forage legumes see "Spot Treatment" in the "Pasture" section of "Cropping Systems" in this label.

For dilution and rates of application using boom or hand-held equipment, see "Mixing, Additives and Application Instructions" and "Weeds Controlled" sections of this label.

NOTE: FOR FORAGE GRASSES AND FORAGE LEGUMES, NO MORE THAN ONE-TENTH OF ANY ACRE SHOULD BE TREATED AT ONE TIME. FOR ALL OTHER CROPS, DO NOT TREAT MORE THAN 10 PERCENT OF THE TOTAL FIELD AREA TO BE HARVESTED.

THE CROP RECEIVING SPRAY IN TREATED AREA WILL BE KILLED. TAKE CARE TO AVOID DRIFT OR SPRAY OUTSIDE TARGET AREA FOR THE SAME REASON.

Selective Equipment—This product may be applied through recirculating sprayers, shielded applicators, or wiper applicators in cotton and soybeans. Shielded and wiper applicators may also be used in tree crops and grapes. Wiper applicators may be used in rutabagas, forage grasses and forage legumes, including pasture sites and sorghum milo.

See the "Selective Equipment" part of the "Application Equipment and Techniques" section of this label for information on proper use and calibration of this equipment.

Allow at least the following time intervals between application and harvest:

Cotton, Soybeans	7 days
Apples, Avocado, Cherry, Grapes, Pear,	14 days
Stone Fruit	17 days
Sorghum (milo)*	40 days

\*Do not use roller applicators. Do not feed or graze treated milo fodder. Do not ensile treated vegetables.

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## ASPARAGUS

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When applied as directed for "Dropping Systems" under the conditions described, this product controls weeds listed on the label in asparagus.

For specific rates of applications and instructions for control of various annual and perennial weeds, see the "Weeds Controlled" section of this label.

**Prior to Crop Emergence**—Apply this product prior to crop emergence for the control of emerged labeled annual and perennial weeds. **DO NOT APPLY WITHIN A WEEK BEFORE THE FIRST SPEARS EMERGE.**

**Spot Treatment**—Apply this product immediately after cutting, but prior to the emergence of new spears. Do not treat more than 10 percent of the total field area to be harvested. Do not harvest within 5 days of treatment.

**Postharvest**—Apply this product after the last harvest and all spears have been removed. If spears are allowed to regrow, delay application until ferns have developed.

Delayed treatments should be applied as directed or shielded spray in order to avoid contact of the spray with ferns, stems or spears. Direct contact of the spray with the asparagus may result in serious crop injury.

**NOTE:** Select and use recommended types of spray equipment for postemergence postharvest applications. A directed spray is any application where the spray pattern is aligned in such a way as to avoid direct contact of the spray with the crop. A shielded spray is any application where a physical barrier is positioned

and maintained between the spray and the crop to prevent contact of spray with the crop.

**INSERT:**

**For use only in Idaho, Utah and Washington.**

This product is recommended for weed control in established grass, vineyards, or orchards, or for site preparation prior to transplanting crops listed in this section. Applications may be made with boom equipment, COA, shielded sprayers, hand-held and high-volume wands, lances, or orchard guns, or with wiper applicator equipment, except as directed in this section. See the "Application Equipment and Techniques" section of this label for specific information on use of equipment.

When applying Roundup alone, refer to the "Weeds Controlled" section for recommended rates to be used.

**NOTE**

Repeat treatments may be necessary to control weeds originating from underground parts of untreated weeds or from seeds. This product does not provide residual weed control. For subsequent weed control, follow a program using residual herbicides or use repeated applications of this product. Do not apply more than 10.6 quarts of this product per acre per year.

**EXTREME CARE MUST BE EXERCISED TO AVOID CONTACT OF HERBICIDE SOLUTION, SPRAY, DRIFT, OR MIST WITH FOLIAGE OR GREEN BARK OF TRUNK, BRANCHES, SUCKERS, FRUIT, OR OTHER PARTS OF TREES OR VINES. CONTACT OF THIS PRODUCT WITH OTHER THAN MAJURED BROWN BARK CAN RESULT IN SERIOUS CROP DAMAGE.**

**AVOID PAINTING OUT STUMPS WITH THIS PRODUCT AS INJURY RESULTING FROM ROOT GRAFTING MAY OCCUR IN ADJACENT TREES.**

Reduced control may result when applications are made to annual or perennial weeds that have been mowed, grazed or cut and have not been allowed to regrow to the recommended stage for treatment.

For specific rates of applications and instructions, see the "Weeds Controlled" section of this label.

**TANK MIXTURES  
TREE AND VINE CROPS**

When applied as a tank mixture, this product provides control of the emerged annual weeds and partial control of the emerged perennial weeds listed in this label. The following residual herbicides will provide preemergence control of those weeds listed in the individual product labels.

- **ROUNDUP® plus SOAL™ 1.6E** ■
- **ROUNDUP plus KARDEX™ WP** ■
- **ROUNDUP plus KROCK™ I** ■
- **ROUNDUP plus KROCK™ II** ■
- **ROUNDUP plus SIMAZINE, CULICID™ 99** ■
- **ROUNDUP plus TERBUTHYL DITHIOPHOSPHATE 4L** ■
- **ROUNDUP plus TERBUTHYL DITHIOPHOSPHATE 800** ■

**REPLACE WITH: Roundup RT**

**REPLACE "ROUNDUP" WITH "ROUNDUP RT"**

2/1/85

# REPLACE "ROUNDUP" WITH "ROUNDUP RT"

- ~~ROUNDUP~~ plus ~~SALICAM~~ 30WP ■
- ~~ROUNDUP~~ plus SURFLAN AS ■
- ~~ROUNDUP~~ plus SURFLAN 75W ■
- ~~ROUNDUP~~ plus SIMAZINE ■  
(80W, or 4L, or CALIBER 90)  
plus SURFLAN (AS or 75W)
- ~~ROUNDUP~~ plus GOAL (1.6E) ■  
plus SURFLAN (AS or 75W)
- ~~ROUNDUP~~ plus GOAL (1.6E) ■ ←  
plus SIMAZINE  
(80W, or 4L, or CALIBER 90)
- ~~ROUNDUP~~ plus GOAL (1.6E) ■  
plus SURFLAN (AS or 75W)  
plus simazine (80W, 4L,  
or Caliber 90)

DELETE

When tank-mixing with residual herbicides, add an agriculturally approved nonionic surfactant.

Do not apply these tank mixtures in Puerto Rico.

## CONTROL OF EMERGED WEEDS

**Annual Weeds**—Apply 1 quart per acre of this product in these tank mixtures, when weeds are less than 17 inches tall. For weeds greater than 12 inches tall, apply 1.5 quarts per acre.

**Perennial Weeds**—For partial control of perennial weeds using these tank mixtures, apply 2 to 5 quarts per acre of this product. Follow the recommendations in the "Weeds Controlled" section of this label for stage of growth and rate of application for specific perennial weeds.

## PREEMERGENCE WEED CONTROL

The following are the labeled rates for the recommended residual herbicides:

PRODUCT	RATE/ACRE
Goal 1.6E	1.25 to 5 qts.
Karwan WP	2 to 8 lbs.
Kruzer I	2 to 8 lbs.
Kruzer II	2 to 8 lbs.
Simazine, Caliber 90	1.1 to 10.6 lbs.
Simazine, 80W	1 1/4 to 12 lbs.
Simazine 4L	2 to 9.6 qts.
Solican 30WP	2 1/4 to 5 lbs.
Surflan AS	2 to 4 qts.
Surflan 75W	2 1/2 to 5 1/2 lbs.

**NOTE:** These residual herbicides may provide post-emergence activity on certain annual weed species.

Refer to the individual product labels for specific crops, rates, geographical restrictions and precautionary statements.

Read and carefully observe the label claims, cautionary statements, rates and all other information on the labels of all products.

For specific rates of application and instructions see the "Weeds Controlled" section of this label.

11/45

**ROUNDUP® Plus Goal**

**REPLACE "ROUNDUP" WITH "ROUNDUP RT"**

Roundup-Plus and Roundup-Plus Goal tank mixtures will control or suppress annual weeds listed below.

Apply the recommended rates of Roundup-Plus or Roundup-Plus Goal tank mixtures plus 0.5 to 1 percent nonionic surfactant by spray volume in 3 to 10 gallons of water per acre. Apply when weeds are actively growing and less than 6 inches in height. If weeds are under drought stress, irrigate prior to application.

← **DELETE**

**RECOMMENDED RATES AND WEEDS CONTROLLED**

WEEDS SPECIES	Roundup rate (fl oz/acre)			Roundup + Goal (fl oz/acre)
	8	12	16	16 + 4 to 16
Bluegrass, annual	C	C	C	C
Barley	C	C	C	C
Cheeseweed, common (3")	S	S	S	C
Rocket, London	S	S	C	C
Shepherdspurse	S	S	C	C
Chickweed	S	C	C	C
Flabbers, flaxleaf	S	C	C	C
Red Maids	S	C	C	C
Barryardgrass	S	C	C	C
Cheeseweed, common (3-6")	S	S	S	C
Crabgrass	S	S	C	C
Groundsel, common	S	S	C	C
Juglone	S	S	C	C
Lambquarters	S	S	C	C
Marestail	S	S	C	C
Pigweed, redroot	S	S	C	C
Ryegrass, common	S	S	C	C
Southwistle, annual	S	S	C	C
Purslane, common	S	S	C	C
Nettle, stinging	S	S	C	C
Filaree	S	S	S	S

**REPLACE "ROUNDUP" WITH "ROUNDUP RT"**

**ROUNDUP® plus Goal, plus SIMAZONE/SURFLAN**

**REPLACE "ROUNDUP" WITH "ROUNDUP RT"**

This product plus Goal, applied alone or as a three-way or four-way with simazine and/or Surflan, will provide postemergence control of those weeds listed below when applied as recommended.

Refer to individual product labels for preemergence rates, weeds controlled, precautionary statements and other important information.

Apply these tank mixtures in 3 to 40 gallons of water. Add 0.5 to 1 percent nonionic surfactant by total spray volume to the spray solution.



11/11

**WEEDS CONTROLLED**

Weed Species	Maximum Height (inches)	Roundup® + Goal (quarts/acre)
Barley, wild	4	0.5 to 1 + 0.5 to 5
Bluegrass, annual	4	0.5 to 1 + 0.5 to 5
Cheeseweed, common	4	0.5 to 1 + 0.5 to 5
Chickweed, common	4	0.5 to 1 + 0.5 to 5
Flaxleaf, fleabane	4	0.5 to 1 + 0.5 to 5
Groundsel, common	4	0.5 to 1 + 0.5 to 5
Marestail	4	0.5 to 1 + 0.5 to 5
Pineappleweed	4	0.5 to 1 + 0.5 to 5
Rocket, London	4	0.5 to 1 + 0.5 to 5
Shepherd's-purse	4	0.5 to 1 + 0.5 to 5
Sowthistle, annual	4	0.5 to 1 + 0.5 to 5
Cheeseweed, common	12	1 to 1.5 + 1 to 5
Nettle, stinging	12	1 to 1.5 + 1 to 5
Filaree	12	1 to 1.5 + 1 to 5

®Goal is a trademark of Rohm and Haas Company

®Solignum is a trademark of Solvay, Inc.

**REPLACE "ROUNDUP" WITH "ROUNDUP RT"**

**PERENNIAL GRASS SUPPRESSION  
ORCHARD FLOORS**

When applied as directed this product will suppress vegetative growth as indicated below.

Bahingrass

This product will provide significant inhibition of seed-head emergence and will suppress vegetative growth for a period of approximately 45 days with a single application and approximately 120 days with sequential applications. Apply this product 1 to 2 weeks after full green-up or after mowing to a uniform height of 3 to 4 inches. Applications must be made prior to seedhead emergence. Apply 6 fluid ounces of this product plus 0.5 to 1 percent nonionic surfactant by total spray volume in 10 to 25 gallons of water per acre.

Sequential applications of this product plus nonionic surfactant may be made at approximately 45-day intervals to extend the period of seedhead and vegetative growth suppression. For continued seedhead suppression, sequential applications must be made prior to seedhead emergence. Apply no more than 2 sequential applications per year. As a first sequential application, apply 4 fluid ounces of this product plus nonionic surfactant. A second sequential application of 2 to 4 fluid ounces may be made approximately 45 days after the last application.

### Bermudagrass

For burndown, apply 1 to 2 quarts of this product plus 0.5 to 1 percent nonionic surfactant by total spray volume in 3 to 20 gallons of water per acre. Use 1 quart of this product in 3 to 20 gallons of water per acre east of the Rocky Mountains. Use 1 to 2 quarts of this product in 3 to 10 gallons of water per acre west of the Rocky Mountains. Use this treatment only if reduction of the bermudagrass stand can be tolerated. When burndown is required prior to harvest, allow at least 21 days to ensure sufficient time for burndown to occur.

**Suppression only (east of the Rocky Mountains)**—Apply 6 to 16 fluid ounces plus 0.5 to 1 percent nonionic surfactant by total spray volume in 3 to 20 gallons of water per acre no sooner than 1 to 2 weeks after full green-up. Mowing prior to application may occur provided a minimum height of 3 inches is maintained. Rates of 6 to 10 fluid ounces plus nonionic surfactant should be used in shaded conditions or where a lesser degree of suppression is desired. Sequential applications may be made when regrowth occurs and bermudagrass injury and stand reduction can be tolerated.

**Suppression only (west of the Rocky Mountains)**—Apply 16 fluid ounces of this product plus 0.5 to 1 percent nonionic surfactant by total spray volume in 3 to 10 gallons of water per acre up to 6 inches in height and no sooner than 1 to 2 weeks after full green-up. Mowing prior to application may occur provided a minimum height of 3 inches is maintained. Sequential applications may be made when regrowth occurs and bermudagrass injury and stand reduction can be tolerated.

For suppression of Kentucky bluegrass covers, apply 6 fluid ounces of this product plus nonionic surfactant. Do not add ammonium sulfate.

For best results, mow cool-season grass covers in the spring to even their height and apply the recommended rate of this product 3 to 4 days after mowing. Avoid treating cool season grass covers under poor growing conditions, such as drought stress (drip irrigation), disease or insect damage.

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## TREE CROPS

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Pome Fruit<sup>®</sup>: apple, pear.

Stone Fruit<sup>™</sup>: apricot, cherry, nectarine, olive, peach, plum/prune.

For cherries, any application equipment listed in this section may be used in all states.

Any application equipment listed in this section may be used in apricots, nectarines, peaches, and plums/prunes growing in Arizona, California, Colorado, Idaho, Kansas, Kentucky/Tennessee, North Dakota, Oklahoma, Oregon, Texas, Utah, and Washington, except for peaches grown in the states specified in the following paragraph. In all other states use vapor equipment only.

**DELETE AS SHOWN**

4/10/15

Remove suckers and low hanging limbs at least 10 days prior to application. Avoid applications near trees with recent pruning wounds or other mechanical injury. Apply only near trees which have been planted in the orchard for 2 or more years. EXTREME CARE MUST BE TAKEN TO ENSURE NO PART OF THE PEACH TREE IS CONTACTED.

**NOTE:**

\*Allow a minimum of 14 days between last application and harvest.

\*\*\*Allow a minimum of 17 days between last application and harvest.

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**VINE CROPS**

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**Grapes**

Any variety of table, wine, or raisin grape may be treated with any equipment listed in this section.

In the northeast and Great Lakes regions, applications must be made prior to the end of bloom stage of grapes to avoid injury.

\*Applications should not be made when green shoots, canes, or foliage are in the spray zone.

\*Allow a minimum of 14 days between last application and harvest.

**DELETE**

11/15

See "General Information" and "Mixing, Additives and Application Instructions" sections of this label for essential product performance information and the following "Noncrop" sections for specific recommended uses.

**EXTREME CARE MUST BE EXERCISED TO AVOID CONTACT OF SPRAY WITH FOLIAGE OF DESIRABLE TURF-GRASSES, TREES, SHRUBS, OR OTHER DESIRABLE VEGETATION SINCE SEVERE DAMAGE OR DESTRUCTION MAY RESULT.**

**NOTE:** If spraying areas adjacent to desirable plants, use a shield made of cardboard, sheet metal or plywood while spraying to help prevent spray from contacting foliage of desirable plants.

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

Roundup herbicide does not provide residual weed control. For subsequent weed control, follow a label-approved herbicide program.

Read and carefully observe the cautionary statements and all other information appearing on the labels of all herbicides used.

### **FARMSTEAD WEED CONTROL**

When applied as directed for "Noncrop Uses", under conditions described, this product controls undesirable vegetation listed on this label around farmstead building foundations, along and in fences, shelterbelts, and for general nonselective farmstead weed control.

For specific rates of application and instructions for control of various annual and perennial weeds, see the "Weeds Controlled" section of this label.

415/415

Product is protected by  
U.S. Pat. No. 3,799, 758 and  
U.S. Pat. No. 4, 405, 531.  
Other patents pending.

No license granted under any non-U.S. patent.

EPA Reg No 524-308  
1989-1

897-15-000-08/53

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In case of an emergency involving this product  
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