

Roun
Herbicide

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.

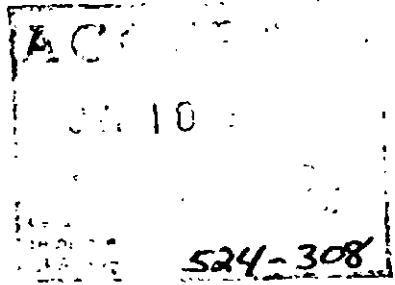
1989-1-199-10-004-93-53

1989-2

B-897.10.004.93/53

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

USE THESE CONVENIENT SECTION MARKERS.



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. 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.

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

Environmental Hazards

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

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OR INHALED.

ADD: Avoid breathing vapor or spray mist.

Get medical attention.

Get medical attention.

ADD: IF INHALED, remove individual to fresh
air. Get medical attention if breath-
ing difficulty develops.



(delete TM)

Complete Directions for Use

EPA Reg No. 524-308

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 ____.

*Accord is a trademark of Monsanto Company.

1989-1

000-01-000-01-00

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

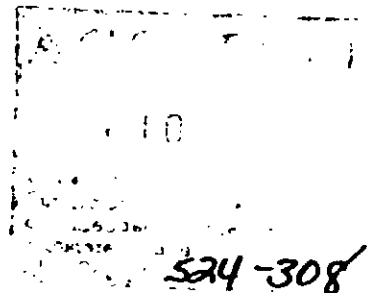
Accord® is a registered trademark of Monsanto
Company.

USE THESE CONVENIENT SECTION MARKERS

1990-1



(delete TM)



Read the entire label before using this product.

Use only according to label instructions.

Read "LIMIT OF WARRANTY AND LIABILITY" before buy-
ing or using. If terms are not acceptable, return it unopened.

Reformulation or repackaging is prohibited.

LIMIT OF WARRANTY AND LIABILITY

~~Not responsible for damage or injury caused by the
use of this product in violation of the label instructions
or the manufacturer's labeling instructions.~~

delete

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

Buyer and all users shall promptly notify the 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 the Company, including, but not
limited to, incompatibility with product other than those
set forth in the Directions, application to or contact with
desirable vegetation, adverse weather, weather condi-
tions which are outside the range conditions covered by
the registration and for the time period when the

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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 the LIMIT OF WARRANTY AND LIABILITY which may not be varied by any verbal or written agreement.

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Atolls.

Artichoke (Jerusalem).

Asparagus, Asparagus.

Bamboo, Edible bamboo.

Beet Greens, Beets (red, sugar).

Berries and Small Fruit.

Bromelain, Cabbage.

Corn, Cauliflower, Celery.

Chicory, Cereals, Cotton, Cucumbers, Eggplant.

Forage Grains.

Forage Legumes, Garlic, Grapes, Horseradish.

Kale, Lentils, Lettuce, Melons.

Mustard Greens, Onions.

Onion, Onion, Potatoes, Peas.

Peanut (oil), Peppers, Pineapples.

Potato (fresh, sweet), Pumpkin.

Radish, Beans, Rutabagas, Sorghum (milo).

Soybeans, Spinach, Sweet (winter), Winter.

Squash, Tomatoes, Turnips, Watermelon.

Watermelon, Wheat.

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Insert in alphabetical order:

Atemoya

Carambola

Sugar apples

Yams

Parsnips

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

Keep out of reach of children.

WARNING!

CAUSES EYE IRRITATION.

~~CAUSES EYE IRRITATION.~~
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.

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

IF SWALLOWED, the product will cause gastrointestinal tract irritation. Immediately delete by swallowing water or milk. ~~Get medical attention.~~

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

Environmental Hazards

Do not spray directly to water or wetland animals, birds, mammals or humans. Do not contaminate water, soil, or vegetation with runoff.

Physical or Chemical Hazards

Spray solutions of this product should be stored, 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 have a highly combustible gas mixture. This gas mixture could flash or explode, causing serious personnel injury, if ignited by open flame, spark, welder's torch, lighted cigarette or other ignition source.

Storage and Disposal

Do not contaminate water, livestock, equipment or storage or disposal.

STORAGE:

STORE ABOVE 10°F. (-12°C) TO KEEP PRODUCT FROM CRYSTALLIZING. Crystals will settle to the bottom. If allowed to crystallize, place in a warm room 60°F. (20°C) for several days to redissolve and then, fill or recarbonate container to mix well before using.

DISPOSAL:

Residue 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 other appropriate disposal in accordance with applicable Federal, state or local procedures.

Empty container retains vapor and product residue. Close all labeled openings and container is closed, recarbonated or destroyed.

See individual container label for disposal information.

HARMFUL IF SWALLOWED OR INHALED.

Avoid breathing vapor or spray mist.

Wash thoroughly with soap and water after handling.

Get medical attention.

Get medical attention.

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

when disposing of equipment washwaters.

ACTIVE INGREDIENT:

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

INERT INGREDIENTS:..... 59.0%
100.0%

*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 556 grams per litre or 3 pounds per U.S. gallon of the acid, glyphosate.

DIRECTIONS FOR USE

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

delete

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ACTIVE INGREDIENT:

*Imidazophosphorus salt of glyoxime	41.0%
INERT INGREDIENTS:	59.0%
	100.0%

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*Contains 400 grams per liter or 4 pounds of the active
ingredient imidazophosphorus salt of N-(phosphoromethyl)
glyoxime per U.S. gallon. Equivalent to 350 grams per
liter or 3 pounds per U.S. gallon of the acid, glyphosate.

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

(Moved to last page)

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

~~PHOSPHOROMETHYL GLYOXIME~~

~~PHOSPHOROMETHYL GLYOXIME~~
~~PHOSPHOROMETHYL GLYOXIME~~

← delete

REGISTERED COMPANY

~~AMERICAN FARM PRODUCTS~~
~~STRUCTURAL CHEMICALS COMPANY~~



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• GENERAL INFORMATION

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

~~Imidazophosphorus salt of glyoxime~~ is a colorless liquid, mixes
easily with water to be applied as a foliar spray for the
control of destruction of many herbaceous plants. It may
be applied through most standard mistblow or hand-type
sprayers after dilution and thorough mixing with water
in accordance with label instructions.

This product moves through the plant from the point of
contact to and stop the root system. Visible effects
on most annual weeds occur within 2 to 4 days, but on
some 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
withering of the plant which advances to complete
drying of above ground growth and deterioration of
underground plant parts.

Unless otherwise specified on this label, delay applica-
tion until vegetation has emerged and reached the stage
described for control of such vegetation under the
"Weed Control" section of this label. Unemerged
plants arising from unharmed underground rhizomes
or root stocks of perennials will not be affected by the
spray and will continue to grow. For this reason, best con-
trol of most perennial weeds is obtained when treatment
is made at the growth stage approaching maturity.

This product,

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Always use the higher rate of the 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.

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.

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.

Roundup herbicide 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 Roundup 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.

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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, 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.

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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 residues of this herbicide can cause severe damage or destruction to the crop, animal, 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 particle misting which are likely to drift. AVOID APPLYING AT EXCESSIVE SPEED OR PRESSURE.

NOTE. Use of this product in any manner not consistent with this label may result in injury to persons, animals or crops, or other unintended consequences. Read and follow closely to prevent such an occurrence.

This product

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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 the label) near the end of the filling process and mix well. Remove hose from tank immediately after filling to avoid sucking 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. Turn hose on and off and return hose at the bottom of the tank and if needed use an approved anti-foam or defoaming agent.

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TANK MIXTURES

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

Use labeled tank mixtures of this herbicide with water as follows:

1. Place a 20 to 35 mesh screen or strainer 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 herbicide near the end of the filling.
7. Where adjuvant 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 con-

this product

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controls, 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 just in nozzle or line strainers 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 the herbicide when adding surfactant. When adding additional surfactant or 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 cautionary statements and other information appearing on the surfactant label.

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AMMONIUM SULFATE

The addition of 2 percent dry ammonium sulfate by weight or 17 pounds per 100 gallons of spray solution increases the performance of Roundup and Roundup plus 2 4-D amine or Savar[®] tank mixtures on annual and perennial weeds. The improvement in performance may be apparent where environmental stress is a concern. Low-quality ammonium sulfate may contain material that will not readily dissolve which could result in nozzle tip clogging. To determine quality, perform a jar test by adding 1/2 cup of ammonium sulfate to 1 gallon of water and agitate for 1 minute. If undissolved material is observed, pre-dissolve the ammonium sulfate 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 or surfactant. Thoroughly rinse the spray system with clean water after use to reduce corrosion.

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 the label.

[®]Roundup is a trademark of Syntex, Inc.

COLORANTS OR DYES

Agriculturally approved colorants or marking dyes may be added to this product. Colorants or dyes used in spray solutions of this product may reduce performance, especially at lower rates or dilutions, the colorants or dyes according to the manufacturer's recommendations.

this product

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APPLICATION EQUIPMENT AND TECHNIQUES

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

This product may be applied with the following application equipment:

Aerial—Fixed Wing and Helicopter

Broadcast Spray

Controlled Droplet Applicator (CDA)—Hand-held or boom-mounted applicators which produce a spray consisting of a narrow range of droplet sizes.

Hand-Held and High-Volume Spray Equipment—Knapsack and backpack sprayers, pump-up pressure sprayers, handguns, handwands, lances and other hand-held spray equipment used to direct the spray onto weed foliage and vehicle-mounted high-volume spray equipment for spray-to-wet applications.

Selective equipment—Recirculating sprayers, shielded sprayers and wiper applicators.

See the appropriate part of this section for specific rates of application and instructions.

■ AERIAL EQUIPMENT ■

Use the recommended rates of this herbicide in 3 to 15 gallons of water per acre unless otherwise specified on this label. See the "Weeds Controlled" section of this label for specific rates. Unless otherwise specified, do not exceed the one-quart rate per acre of this product.

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(Aerial applications of this product may be made in annual cropping conventional tillage systems, fallow and reduced tillage systems, preharvest, educational sites, and rights-of-way. Refer to the individual use area sections of this label for recommended volumes and application rates.) FOR AERIAL APPLICATION IN CALIFORNIA, REFER TO THE FEDERAL SUPPLEMENTAL LABEL FOR AERIAL APPLICATIONS IN THAT STATE FOR SPECIFIC RESTRICTIONS, RESTRICTIONS AND REQUIREMENTS.

Avoid direct application to any body of water.

AVOID DRIFT—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 IS 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.

Drift control additives may be used. When a drift control additive is used, read and carefully observe the cautionary statements and all other information appearing on the additive label.

Ensure uniform application—To avoid streaked, uneven or overlapped applications, use appropriate marking devices.

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Thoroughly wash aircraft, especially landing gear, after each day of spraying to remove residues of this product accumulated during spraying or from 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.

■ BROADCAST EQUIPMENT ■

For control of annual or perennial weeds listed on this label using broadcast equipment—Use the recommended rates of this product in 3 to 40 gallons of water per acre as a broadcast spray unless otherwise specified on this label. See the "Weeds Controlled" section of this label for specific rates. As density of weeds increases, spray gallonage should be increased within the recommended range to ensure complete coverage. Carefully select proper nozzle to avoid spraying a fine mist. For best results with ground application equipment, use flat fan nozzles. Check for even distribution of spray droplets.

■ CONTROLLED DROPLET APPLICATION (CDA) ■

The rate of this product applied per acre by vehicle-mounted CDA equipment must not be less than the amount recommended in this label when applied by conventional broadcast equipment. For vehicle-mounted CDA equipment apply 3 to 15 gallons of water per acre. For the control of labeled annual weeds with hand-held CDA units, apply a 20 percent solution of this product

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at a flow rate of 2 fluid ounces per minute and a walking speed of 1.5 MPH (1 quart per acre). For the control of labeled perennial weeds, apply a 20 to 40 percent solution of this product at a flow rate of 2 fluid ounces per minute and a walking speed of 0.75 MPH (2 to 4 quarts per acre).

Controlled droplet application equipment produces a spray pattern which is not easily visible. Extreme care must be exercised to avoid spray or drift contacting the foliage or any other green tissue of desirable vegetation as damage or destruction may result.

■ HAND-HELD and HIGH-VOLUME EQUIPMENT ■

Use coarse sprays only.

Mix this product in clean water and apply to foliage of vegetation to be controlled. For applications made on a spray-to-wet basis, spray coverage should be uniform and complete. Do not spray to the point of runoff.

For control of annual weeds listed on this label, apply a 0.5 percent solution of this product plus nonionic surfactant to weeds less than 6 inches in height or runner length. Apply prior to seedhead formation in grass or bud formation in broadleaves. Allow three or more days before tillage or mowing.

For annual weeds over 6 inches tall, or when not using additional surfactant, or unless otherwise specified, use a 1 percent solution. For best results, use a 2 percent solution on harder-to-control perennials, such as bromeograss, duck, field bindweed, hemp dogbane, nutweed and Canada thistle.

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Less than complete coverage of weeds may result from the use of spray equipment designed for broadcast spot treatments. Where less than complete coverage of annual weeds occurs, use a 5 percent solution. Do not reduce recommended concentrations of Roundup when adding surfactant.

Prepare the desired volume of spray solution by mixing the amount of this product in water as shown in the following table:

Spray Solution

DESIRED VOLUME	AMOUNT OF ROUNDUP ←				
	4%	1%	1 1/4%	2%	5%
1 gallon	4 oz	1 1/4 oz	2 oz	2 1/4 oz	6 1/4 oz
25 gallons	1 qt	1 qt	1 1/4 qt	2 qt	5 qt
100 gallons	2 qt	1 gal	1 1/4 gal	2 gal	5 gal

2 tablespoons = 1 ounce

For use in backpack sprayers, it is suggested that the proper amount of this product be mixed with water in a larger container. Fill sprayer with the mixed solution.

For hand-held WIPER / APPLICATORS see the "Selective Equipment" section and for hand-held CONTROLLED DROPLET APPLICATORS see the "Controlled Droplet Applicator (CDA)" section of this label.

PRODUCT

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SELECTIVE EQUIPMENT

This product may be applied through a recirculating spray system, a shielded applicator, or a wiper applicator after dilution and thorough mixing with water to kill weeds growing in any manner site specified on the label and only when specifically recommended in cropping system.

A recirculating spray system directs the spray solution over weeds growing above desirable vegetation, while spray solution not intercepted by weeds is collected and returned to the spray tank for reuse.

A shielded applicator directs the herbicide solution over weeds while shielding desirable vegetation from the herbicide.

A wiper applicator applies the herbicide solution over weeds by rubbing the weed with an absorbent material containing the herbicide solution.

AVOID CONTACT WITH DESIRABLE VEGETATION

Contact of the herbicide solution with the desirable vegetation may result in damage or destruction. Applicators should ensure desired vegetation should be avoided so that the lowest spray stream or wiper contact point is at least two inches above the desirable vegetation. Droplets, mist, foam, or splatter of the herbicide solution settling on desirable vegetation may result in desiccation, staining, or destruction.

Applications made above the crop should be made when the weeds are a minimum of 6 inches above the desirable vegetation. Better results may be obtained when

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more of the weed is exposed to the herbicide solution. Weeds not contacted by the herbicide solution will not be affected. This may occur in dense clumps, severe infestations, or when the height of the weeds varies so that not all weeds are contacted. In these instances, repeat treatment may be necessary.

See the "Weeds Controlled" section of this label for recommended stage of growth for specific weeds.

NOTE

- Maintain equipment in good operating condition. Avoid leakage or dripping onto desirable vegetation.
- Adjust height of applicator to insure adequate contact with weeds.
- Keep nozzle tips and wiping surfaces clean.
- Keep spray patterns aligned into recovery chamber of the recirculating sprayer.
- Keep shields on shielded applicators adjusted to protect desirable vegetation.
- Maintain recommended roller RPM on roller applicators while in use.
- Keep wiper material at proper degree of saturation with herbicide solution.
- DO NOT use wiper equipment when weeds are wet.
- DO NOT operate equipment at ground speeds greater than 5 mph. Weed control may be affected by speed of application equipment. As weed density increases, reduce equipment ground speed to insure good coverage of weeds.

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- Be aware that on sloping ground the herbicide solution may migrate, causing dripping on the lower end and drying on the upper end of a wiper applicator.
- Variation in equipment design may affect weed control. With wiper applicators, the wiping material and its orientation must allow delivery of sufficient quantities of the recommended herbicide solution directly to the weed.
- Care must be taken with all types of wipers to ensure that the absorbent material does not become overloaded, causing the herbicide to drip on desirable vegetation.
- Mix only the amount of solution to be used during a one-day period, as reduced activity may result from use of leftover solutions. With all equipment, drain and clean sprayer and wiper parts immediately after using this product by thoroughly flushing with water.

RECIRCULATING SPRAYERS

Recirculating sprayer calibration is made on the basis of ground speed and delivery volume. Two procedures can be used to calibrate: (1) determine the discharge being delivered per minute, then operate at the designated ground speed, or (2) select the desired ground speed and then adjust the sprayer to deliver the recommended volume per minute (this may require nozzle change). Use the appropriate table below.

Do not operate at nozzle pressure above 20 PSI.

Table 1. Use this table when calibrating box or row-type recirculating sprayers. Box or row-type sprayer calibration is based on the total discharge collected per row.

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Use only straight stream or 15° fan-type nozzles.

VOLUME PER MINUTE PER ROW

MPH	Ounces
2	26 to 35
3	38 to 51
4	51 to 68
5	65 to 86

*NOTE: Be certain the amount collected is for all spray streams treating one row.

Table 2. Use this table when calibrating broadcast type recirculating sprayers. Broadcast recirculating sprayer calibration is based on the discharge collected per minute from one nozzle on a 20-inch spacing.

VOLUME PER MINUTE PER NOZZLE

MPH	Ounces
2	7 to 9
3	10 to 13
4	13 to 18
5	16 to 22

When applied as recommended under the conditions described for recirculating sprayers, this product will control the following weeds growing a minimum of 6 inches above desirable vegetation.

Perennial Broadleaf Weeds—To SUPPRESS the following weeds, mix in a ratio of 4 quarts of this product in 20 gallons of water and apply as directed.

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Dogbane, hemp Milkweed
Asclepias tuberosa *Asclepias syriaca*

Perennial Grasses and Annual Broadleaf Weeds—To control the following weeds, mix in a ratio of 3 quarts of this product in 20 gallons of water and apply as directed.

Cocklebur Pigweed, redroot
Xanthium *Amaranthus*
strumarium *retrofractus*

Johnsongrass Sandspur
Sorghum halepense *Helianthus annuus*

Annual Grasses—To control the following weeds, mix in a ratio of 2 quarts of this product in 20 gallons of water and apply as directed.

Corn Shattercane
Zea mays *Sorghum bicolor*

SHIELDED APPLICATORS

When applied as directed under conditions described for shielded applicators, this product will control those weeds listed in the "Weeds Controlled" section of the label.

Shielded applicators which apply the herbicide solution as a spray band should be calibrated on a broadcast equivalent rate and volume basis. To determine these:

$$\frac{\text{Band width in inches}}{\text{Row width in inches}} \times \frac{\text{Herbicide Broadcast RATE per acre}}{\text{Herbicide Band RATE per acre}}$$

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Band width in inches	x	Broadcast VOLUME of solution per acre	=	Band VOLUME of solution per acre
Row width in inches				

Use nozzles that provide uniform coverage within the treated area. **EXTREME CARE MUST BE EXERCISED TO AVOID CONTACT WITH DESIRABLE VEGETATION**

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

WIPER APPLICATORS

Wiper applicators include either roller or wick devices which physically wipe appropriate concentrations or amounts of this product directly onto the weed. Equipment must be designed, maintained, and operated to prevent the herbicide solution from contacting desirable vegetation. Operate this equipment at ground speeds no greater than 5 mph. Performance may be improved by reducing speed in areas of heavy weed infestations to ensure adequate wiper saturation. Better results may be obtained if two applications are made in opposite directions.

Do not add surfactant to the herbicide solution.

For Roller Application— Mix 1 gallon of this product in enough water to prepare 10 gallons of herbicide solution (10 percent solution). Apply this solution to perennial weeds or annual broadleaf weeds listed in this "Wiper Applicators" section.

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Mix 1 gallon of this product in enough water to provide 20 gallons of herbicide solution (5 percent solution). Apply this solution to annual grasses listed in this "Wiper Applicators" section.

Roller speed should be maintained at 40 to 60 RPM.

For Wick or Wiper Application— Mix 1 gallon of this product in 2 gallons of water to prepare a 33 percent solution. Apply this solution to weeds listed in this "Wiper Applicators" section.

In severe infestations, reduce equipment ground speed to ensure that adequate amounts of this product are wiped on the weeds. A second treatment in the opposite direction may be beneficial.

Do not permit herbicide solution to contact desirable vegetation.

When applied as recommended under the conditions described for "Wiper Applicators", this product **CONTROLS** the following weeds:

ANNUAL GRASSES

Corn	Rye, common
Zero mays	Socole carole
Pennisetum, Tensu	Shattercorn
Panicum laxum	Sorghum bicolor

ANNUAL BROADLEAVES

Stellaria	Stellaria, leafy
Centaurea	Aceraspermum
Spizidium	Asperula
Galium aparine	

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When applied as recommended under the conditions described for "Wiper Applicators" this product SUPPRESSES the following weeds:

ANNUAL BROADLEAVES

Beggarweed, Florida	Ragweed, giant
<i>Desmodium</i>	<i>Ambrosia trifida</i>
<i>tortuosum</i>	Seaflower
Dogfennel	<i>Helianthus annuus</i>
<i>Eupatorium</i>	Thistle, smooth
<i>capilliflorum</i>	<i>Cardus nutans</i>
Pigweed, redroot	Velvetleaf
<i>Amaranthus</i>	<i>Abutilon theophrasti</i>
<i>retrofractus</i>	

Ragweed, common
Ambrosia artemisiifolia

PERENNIAL GRASSES

Bermudagrass	Seasidegrass
<i>Cynodon dactylon</i>	<i>Sporobolus poireti</i>
Guineagrass	Yellowgrass
<i>Panicum maximum</i>	<i>Paspalum urvillei</i>

Johnsongrass
Sorghum halepense

PERENNIAL BROADLEAVES

Dogbane, hemp	Nightshade, silverleaf
<i>Apocynum cannabinum</i>	<i>Solanum elaeagnifolium</i>
Milkweed	Thistle, Canada
<i>Asclepias syriaca</i>	<i>Cirsium arvense</i>

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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.

LOW-VOLUME BROADCAST APPLICATION (LOW-RATE TECHNOLOGY)

When applied as directed under the conditions described, this product will control the weeds listed below when:

1. Water carrier volumes are 3 to 10 gallons per acre for ground applications and 3 to 5 gallons per acre for aerial applications. (See the "Aerial Application" section of this label for approved sites.)
2. A nonionic surfactant is added at 0.5 to 1 percent by total spray volume. Use 0.5 percent surfactant concentration when using surfactants which contain at

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least 10 percent active ingredient or a 1 percent surfactant concentration for those surfactants containing less than 50 percent active ingredient.

NOTE

- 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 annual 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.
- Do not tank-mix with soil residual herbicides when using these rates unless otherwise specified.
- For weeds that have been mowed, grazed, or cut, allow regrowth to occur prior to treatment.
- Refer to the "Tank Mixtures" portion of this section for control of additional broadleaf weeds.

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WEED SPECIES	MAXIMUM HEIGHT	RATE PER ACRE**
Fatail <i>Setaria</i> spp.	12"	8 oz.
Barnyardgrass <i>Echinochloa crus-galli</i>	6" (0 to 4") (4 to 6")	12 oz. (6 oz.) (24 oz.)
Blunders, annual <i>Poa annua</i>		
Broom, downy <i>Bromus tectorum</i>		
Mustard, blue <i>Chromola frutescens</i>		
Mustard, leafy <i>Descurainia flexuosa</i>		
Mustard, tumble <i>Sisymbrium officinalis</i>		
Mustard, wild <i>Sinapis arvensis</i>		
Spiny, white <i>Hibiscus cannabinus</i>		
Barley <i>Hordeum vulgare</i>	12"	
Rye <i>Secale cereale</i>		

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Sandbar, field <i>Conchus</i> spp.		
Shatterbox <i>Sorghum bicolor</i>		
Stinkgrass <i>Eragrostis ciliaris</i>		
Wheat <i>Triticum aestivum</i>	18"	
Morningglory <i>Ipomoea</i> spp.	2"	16 oz.
Sicklepod <i>Cassia obtusifolia</i>		
Bluegrass, bulbous <i>Poa bulbosa</i>	6"	
Chest <i>Bromus secalinus</i>		
Chickweed, common <i>Corastium vulgatum</i>		
Corn <i>Zea mays</i>		
Groundsel, common <i>Senecio vulgaris</i>		
Horsetail/Marshmallow <i>Coryza canadensis</i>		
Lambquarters, common <i>Chenopodium album</i>		

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WEED SPECIES	MAXIMUM HEIGHT	DATE PER ACRE**
Pennycress, field <i>Thlaspi arvense</i>	6"	16 oz.
Rudbeck, London <i>Symphytum</i> spp.		
Ryegrass, Italian <i>Lolium multiflorum</i>		
Shepherdspurse <i>Capsella bursa-pastoris</i>		
Buttercup <i>Ranunculus</i> spp.	12"	
Cocklebur <i>Xanthium strumarium</i>		
Cocklebur <i>Digitalis</i> spp.		
Groundsill <i>Erigeron annuus</i>		
Feldspar, smallflowered <i>Camelina microcarpa</i>		
Pasture, Carolina <i>Alopecurus carolinianus</i>		
Johnsongrass, trailing <i>Sorghum halepense</i>		

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Grass, wild <i>Avena fatua</i>		
Proso, fall <i>Panicum dichotomiflorum</i>		
Proso, Texas <i>Panicum texanum</i>		
Pigweed, redroot <i>Amaranthus retrofractus</i>		
Pigweed, smooth <i>Amaranthus hybridus</i>		
Witchgrass <i>Panicum capillare</i>		
Sicklepod <i>Cassia obtusifolia</i>	3 to 4"	24 oz
Signalgrass, broadleaf <i>Brachiaria platyneura</i>	4"	
Horsetail / Mare's tail <i>Conyza canadensis</i>	7 to 12"	
Lambquarters, common <i>Chenopodium album</i>		
Tea weed <i>Sida spinosa</i>	4"	32 oz
Rice, red <i>Oryza sativa</i>	6"	
Carpetweed, Carolina <i>Geranium carolinianum</i>	12"	

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WEED SPECIES	MAXIMUM HEIGHT	RATE PER ACRE**
Common ragweed <i>Eragrostis indica</i>	12"	32 oz
Privet, cutleaf or winged <i>Oenothera lachnopus</i>		
Pasture, Florida <i>Richtera scabra</i>		
Sicklepod <i>Cassia obtusifolia</i>	5 to 12"	
Spokenstomach <i>Eragrostis prostrata</i>		
Filix <i>Eragrostis sp.</i>	12"	48 oz

*Use these rates in Alabama, Arkansas, Mississippi, Missouri, Louisiana and Texas for preplant treatments.

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

**For these rates use less than 32 ounces per acre. (Rates up to 32 ounces per acre may be used where heavy weed infestations exist.)

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TANK MIXTURES	
Roundup plus Banvel	
plus nonionic surfactant	
Roundup plus 2,4-D amine	
plus nonionic surfactant	

Change "ROUNDUP" to "ACCORD CR"

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

These tank mixtures are recommended for use in follow and reduce tillage areas only. Follow use directions as given in the Low-volume Broadcast Application section.

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

Change to "This product"

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 lb. a.i. of Banvel or 0.5 pounds a.i. of 2,4-D amine, plus 0.5 to 1 percent nonionic surfactant by total spray volume per acre to control other populations of the following annual broadleaf weeds when less than 6 inches in height:

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Reckia*	Pyrola, redroot
Reckia scoparia	Amorpha reuteriana
Lambquarters	Thistle, Russian
Chenopodium album	Salt-tolerant
Lettuce, prickly	
Lactuca scariola	

*Compatible with Banvel tank mixture only.

HIGH-VOLUME BROADCAST APPLICATIONS

When applied as directed under the conditions described, this product will control the weeds listed below when water carrier volumes are 10 to 40 gallons per acre for ground applications.

Use 1 quart of the product per acre if weeds are less than 6 inches tall. If weeds are over 6 inches tall, use 1.5 quarts of the product per acre. If weeds have been mowed, grazed, or cut allow adequate time for new growth to reach minimum stage prior to treatment. There will also be some control of weeds listed in the Low-volume Broadcast Application section.

WEED SPECIES

Barnyardgrass*	Panicum
Digitaria pruriens	Panicum spp.
Common lambsquarters	Ragweed, common
Galium aparine	Andropogon gerardii
Blindweed	Ragweed, giant
Galium aparine	Andropogon gerardii
Redroot	Sorghum, Pennsylvanian
Archea, etc.	Polygonum pennsylvanicum

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Plumed Plumeless	Sewthistle, annual
<i>Cenchrus biseriatus</i>	<i>Sanchezia elaeagnus</i>
Plumeless	Seedling
<i>Eriogonum</i> spp.	<i>Habenaria annua</i>
Rachis	Thistle, Russian
<i>Rachis scoparia</i>	<i>Salsola kali</i>
Letuce, prickly	Velvetleaf
<i>Lactuca serriola</i>	<i>Achillea theophrasti</i>

*Apply with hand-held equipment only

PERENNIAL WEEDS

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

NOTE: If weeds have been mowed or tilled, 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.

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When applied as recommended under the conditions described, this product WILL CONTROL the following PERENNIAL WEEDS:

Mullein	Horsetail
<i>Medicago sativa</i>	<i>Arrhenathera rusticana</i>
Alfalfa	Johnsongrass
<i>Alternanthera</i>	<i>Sorghum halepense</i>
<i>phaleroides</i>	Eleusine
Artichoke, Jerusalem	<i>Pennisetum</i>
<i>Habenaria tuberosa</i>	<i>clandestinum</i>
Bahiagrass	Eleusine
<i>Paspalum notatum</i>	<i>Conyza repens</i>
Barnyard	Lantana
<i>Agraria</i> spp.	<i>Lantana camara</i>
Bromegrass	Milium
<i>Cynodon dactylon</i>	<i>Alopecurus</i> spp.
Blackfoot, Red	Milium, ciliatum
<i>Convolvulus arvensis</i>	<i>Muhlenbergia frutescens</i>
Blugrass, Kentucky	Mullein, common
<i>Poa</i> spp.	<i>Verbascum thapsus</i>
Blugrass, Texas	Haplophragma
<i>Habenaria ciliata</i>	<i>Pennisetum purpureum</i>
Bromegrass	Nightshade, striped
<i>Panicum aquinum</i>	<i>Solanum elaeagnifolium</i>
Bromegrass, smooth	Nutsedge, purple, yellow
<i>Bromus horridus</i>	<i>Cyperus rotundus</i>
Brome, weevil	<i>Cyperus esculentus</i>
<i>Fragaria virginiana</i>	Bromegrass
	<i>Dactyloctenium</i>

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sary to maintain control. Allow 7 or more days after application before tillage.

Bindweed, field/Blowweed, Texas—Apply 4 to 5 quarts of this product per acre west of the Mississippi River and 3 to 4 quarts per acre east of the Mississippi River. Apply when weed is actively growing and is at or beyond full bloom. Do not treat when weed is under drought stress as good soil moisture is necessary for active growth. New leaf development indicates active growth. For best results, apply in late summer or fall. Fall treatments must be applied before a killing frost. Allow 7 or more days after application before tillage.

Bindweed, field (suppression irrigated lands where annual tillage is performed)—Apply 1 quart of this product plus 0.5 to 1 percent nonionic surfactant by total spray volume in 3 to 10 gallons of water per acre. Apply to actively growing bindweed that has reached a length of 12 inches or greater. Allow maximum weed emergence and runner growth. Do not treat when weed is under drought stress as good soil moisture is necessary for active growth. Allow 3 or more days after application before tillage.

Bluegrass, Kentucky / Bromegrass, smooth / Orchardgrass—Apply 2 quarts of this product in 10 to 40 gallons of water per acre when the grasses are actively growing and most plants have reached boot-to-early seedhead stage of development. For partial control in pasture or hay crop renovation apply 1 to 1½ quarts of this product plus 0.5 to 1 percent nonionic surfactant by total spray volume in 3 to 10 gallons of water per acre. Apply to actively growing plants when most have reached 4 to 12

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inches in height. Allow 7 or more days after application before tillage.

Orchardgrass (seeds going to no-till corn)—Apply 1 to 1.5 quarts of this product per acre plus 0.5 to 1 percent nonionic surfactant by total spray volume in 3 to 10 gallons of water per acre. Apply to orchardgrass that is a minimum of 12 inches tall for spring applications and 6 inches tall for fall applications. Allow at least three days following application before planting. A sequential application of 3.75 to 4.5 quarts of Larset® herbicide, or equivalent, will be necessary for optimum results. Larset should be applied within 3 to 10 days following spring applications to prevent annual weed growth.

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Breakers—Apply 3 to 4 quarts of this product per acre as a broadcast spray or as a 1 to 1½ percent solution with hand-held equipment. Apply to fully expanded fronds which are at least 18 inches long.

Barnyard, weedy—For control apply 2 quarts of this product plus 1 pint of Bevel per acre. For partial control apply 1 quart of this product plus 1 pint of Bevel per acre. Add 0.5 to 1 percent nonionic surfactant by total spray volume and apply 3 to 20 gallons of water per acre. Apply when plants are producing new active growth which has been initiated by moisture for at least 2 weeks and when plants are at or beyond flowering.

Canarygrass, seed/Flourish / Wheatgrass, western—Apply 2 to 3 quarts of this product 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.

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Cogongrass—Apply 3 to 5 quarts of this product plus 0.5 to 1 percent nonionic surfactant in 10 to 40 gallons of water per acre. Apply when Cogongrass is at least 18 inches tall and actively growing in late summer or fall. Allow 7 or more days after application before tillage or mowing. Due to uneven stages of growth and the dense nature of vegetation preventing good spray coverage, repeat treatments may be necessary to maintain control.

Dogbane, Hemp/Flaxweed/Horseweed—Apply 4 quarts of this product per acre. Apply when actively growing and when most weeds have reached the late bud to flower stage of growth. Following crop harvest or mowing, allow weeds to regrow to a mature stage prior to treatment. For best results, apply in late summer or fall. Allow 7 or more days after application before tillage.

Fescue, tall—Apply 3 quarts of this product in 10 to 40 gallons of water per acre to actively growing plants when most have reached boot-to-early seedhead stage of development.

Fall applications only—Apply 1 quart of this product plus 0.5 to 1 percent nonionic surfactant by total spray volume in 3 to 10 gallons of water per acre. Apply to fescue in the fall when actively growing and plants have 6 to 12 inches of new growth. Allow 7 or more days after application before tillage. A sequential application of 1 pint per acre of this product plus nonionic surfactant will improve long-term control and control seedlings germinating after fall treatments or the following spring.

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Guineagrass—Apply 3 quarts of this product per acre or use a 1 percent solution with hand-held equipment. Apply to actively growing guineagrass when most has reached at least the 7-leaf stage of growth. Ensure thorough coverage when using hand-held equipment. Allow 7 or more days after application before tillage.

Johnsongrass/Bysgrass, 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 3 to 10 gallons of water per acre. Use 2 quarts of this product when applying 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 or in the fall prior to frost. Allow 7 or more days after application before tillage. Do not tank-mix with residual herbicides when using the 1 quart per acre rate.

For burndown of Johnsongrass, apply 1 pint per acre plus 0.5 to 1 percent nonionic surfactant in 3 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.

Spot Treatment (partial control or suppression)—Apply a 1 percent solution of this product plus 0.5 to 1 percent nonionic surfactant by total spray volume when johnsongrass is 12 to 18 inches in height. Coverage should be uniform and complete.

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Killbuckgrass—Apply 2 to 3 quarts of this product per acre. Spray when most killbuckgrass is at least 8 inches in height (3 or 4-leaf stage of growth) and actively growing. Allow 3 or more days after application before tillage.

Lambsquarters—Apply this product as a 1 to 1½ percent solution using hand-held equipment only. Apply to actively growing lambsquarters at or beyond the bloom stage of growth. Use the higher application rate for plants that have reached the weedy stage of growth. Allow 7 or more days after application before tillage.

Milkweed, common—Apply 3 quarts of this product per acre. Apply when actively growing and most of the milkweed has reached the late bud to flower stage of growth. Following small grain harvest or mowing, allow milkweed to regrow to a mature stage prior to treatment. Allow 7 or more days after application before tillage.

Mutiny, western—Apply 1 to 2 quarts of this product per acre. Use 1 quart of this product plus 0.5 to 1 percent nonionic surfactant by total spray volume in 3 to 10 gallons of water per acre. Use 2 quarts of this product when applying 10 to 40 gallons of water per acre or in pastures, sod, or noncrop areas. Spray when the western mutiny is 8 inches or more in height and actively growing. Do not till between harvest and fall applications or in the fall or spring prior to spring applications. Allow 3 or more days after application before tillage. This product will not provide residual control of western mutiny from seeds which germinate after a ~~subsequent~~ application. Do not tank mix with residual herbicides when using the 1 quart per acre rate.

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Rightward, silverleaf—For control, apply 2 quarts of this product plus 0.5 to 1 percent nonionic surfactant by total spray volume in 3 to 10 gallons of water per acre. Applications should be made when at least 60 percent of the plants have berries. Fall treatments must be applied before a killing frost. Allow 7 or more days after application before tillage. Do not treat when weed is under drought stress as good soil moisture is necessary for active growth.

Rutabaga, purple, yellow—Apply 3 quarts of this product per acre as a broadcast spray, or apply a 1 percent solution from hand-held equipment to control existing rutabaga plants and immature rutabaga attached to treated plants. Treat when plants are in flower or when new rutabaga can be found at rhizome tips. Rutabaga which have not germinated will not be controlled and may germinate following treatment. Repeat treatments will be required for long-term control. Wait 7 days after treatment before tillage. Tillage will stimulate rutabaga germination.

Apply 1 pint to 1 quart of this product per acre, plus 0.5 to 1 percent nonionic surfactant in 3 to 40 gallons of water per acre to provide suppression or partial control of existing rutabaga plants. Treat when plants have 3 to 5 leaves (less than 6 inches). Repeat treatments will be required to control subsequent emerging plants. Wait 7 days after treatment before tillage or mowing.

Partheno—Apply this product as a 1½ to 2 percent solution using hand-held equipment. Apply to plants that are actively growing at or beyond the bud stage of growth. Thorough coverage is necessary for best control.

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Parthenium—For aerial control of parthenium in Florida and the coasts of other states bordering the Gulf of Mexico, apply 5 quarts per acre as a broadcast spray or apply a 2 percent solution from hand-held equipment. In other areas of the U.S., apply 3 quarts per acre as a broadcast spray or apply a 1 percent solution from hand-held equipment for aerial control. For best results, treat during late summer or fall months or when plants are actively growing and in full bloom. Treatment before or after this stage may lead to reduced control. Due to the dense nature of the vegetation, which may prevent good spray coverage at various stages of growth, repeat treatments may be necessary to maintain control. Visual control symptoms will be slow to develop.

Quackgrass—In Annual Cropping Systems, or in Pastures and Soils Followed by Grass 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 3 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 6 to 12 inches in height and actively growing. Do not till between harvest and fall applications or in fall or spring prior to spring application. Allow 3 or more days after application before tillage. In pastures or soils, for best results use a moldboard plow.

Quackgrass—Pasture or Soil or Other Reseeding 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 6 inches tall and actively growing. Do not till between harvest and fall

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application or in fall or spring prior to spring application. Allow 3 or more days after application before tillage.

Smartweed, wild—Apply this product as a 2 percent solution using hand-held equipment. Apply to actively growing weeds that are at or beyond the bloom stage of growth. Repeat applications will be required. Allow the plant to reach the recommended stage of growth before retreatment. Allow 7 or more days before tillage.

Thistle, Canada—Apply 2 to 3 quarts of this product per acre. Apply to actively growing weeds when most are at or beyond the bud stage of growth. After harvest, mowing or tillage in the late summer or fall, allow at least 4 weeks for initiation of active growth and regrowth development prior to the application of this product. Fall treatments must be applied before a killing frost. Allow 3 or more days after application before tillage.

For suppression of Canada thistle, apply 1 quart per acre of this product plus 0.5 to 1 percent nonionic surfactant by total spray volume in 3 to 10 gallons of water per acre in the late summer or fall after harvest, mowing or tillage. Allow regrowth regrowth to a minimum of 6 inches in diameter before treating. Applications can be made as long as leaves are still green and plants are actively growing at the time of application. Allow 3 or more days after application before tillage.

Ternstroemia—Apply 4 to 5 quarts of this product per acre to provide partial control of ternstroemia. Apply to actively growing ternstroemia when most plants are at or beyond the seedling stage of growth. Repeat applications will be required to maintain control. Fall treat-

Reed, giant - For control of giant reed, apply a 2% solution of this product when plants are actively growing. Best results are obtained when applications are made in late summer to fall.

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Refer to the specific product labels for crop rotation restrictions and cautionary statements of all products in this mixture.

WOODY BRUSH AND TREES

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

Alder	Manchurian Flower*
Alnus spp.	Mimusops gualanensis
Ash*	Oak
Fraxinus spp.	Black*
Aspen, quaking	Quercus velutina
Populus tremuloides	Northern Pin
Basswood (Basswood)	Quercus douglasii
Charaena spp.	Pine
Birch	Quercus stenota
Betula spp.	Red
Blackberry	Quercus rubra
Rubus spp.	Southern Red
Bramble	Quercus falcata
French	White*
Cytisus monosperma	Quercus alba
Scotch	Persea*
Cytisus scoparius	Quercus spp.
Baccharis, California*	Pine
Eriogonum fasciculatum	Rhus typhina

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Cactus*	Pine Oak
Thamnos durshiana	Rhus typhina
Catalpa*	Poplar*, yellow
Acacia greggii	Liriodendron tulipifera
Ceanothus*	Raspberry
Ceanothus spp.	Rubus spp.
Chama	Rosa, multiflora
Adiantum fasciculatum	Rosa rugosa
Cherry	Sage, white
Bitter	Salvia miltiorrhiza
Prunus emarginata	Sagebrush, California
Black	Artemisia californica
Prunus serotina	Sambucus
Pine	Rubus spectabilis
Prunus pennsylvanica	Sambucus
Copula brush	Sambucus racemosa
Baccharis confertiflora	Sambucus
Croton, Virginia*	Juncus arborescens
Parthenocissus quinquefolia	Sage
Dodder	Pine*
Rubus fruticosus	Rhus typhina
Elderberry	Sage*
Sambucus spp.	Rhus glabra
Elm*	Wing*
Ulmus spp.	Rhus copallina
Eucalyptus, Blongon	Sage
Eucalyptus globulus	Liriodendron tulipifera

Russian - olive

Elaeagnus angustifolia

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Hemlock*	Sawdust*
<i>Haploxylops squamatus</i>	<i>Polystichum nudum</i>
Hemlock	Tallstem, Chinese
<i>Croceus spp</i>	<i>Sapum sebiferum</i>
Hazel	Tan Oak
<i>Corylus spp</i>	<i>Lithocarpus densiflorus</i>
Honeylocust	Thimbleberry
<i>Lonicera spp</i>	<i>Rubus parviflorus</i>
Rodan	Yucca, tree*
<i>Pueraria lobata</i>	<i>Nicotiana glauca</i>
Lacust, black*	Trumpetcrusher
<i>Robinia pseudacacia</i>	<i>Campes radicans</i>
Madrone	Willow
<i>Arbutus menziesii</i>	<i>Salix spp.</i>
Mandarin	
<i>Arctostaphylos spp.</i>	
Maple	
Red**	
<i>Acer rubrum</i>	
Sugar	
<i>Acer saccharum</i>	
Wine*	
<i>Acer circinatum</i>	

*Partial control

**See below for control or partial control instructions.

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NOTE: If brush has been mowed or killed or trees have been cut, do not treat until regrowth has reached the recommended stages of growth.

Apply this product when plants are actively growing, and unless otherwise directed, after full leaf expansion. Use the higher rate for larger plants and/or denser areas of growth. On vines, use the higher rate for plants that have reached the woody stage of growth. Best results are obtained when application is made in late summer or fall after fruit formation.

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

Ensure thorough coverage when using hand-held equipment. Symptoms may not appear prior to fruit or senescence with full treatments.

Allow 7 or more days after application before tillage, mowing or removal. Repeat treatments may be necessary to control plants regenerating from underground parts or seed. Some autumn colors on undesirable deciduous species are acceptable provided no major leaf drop has occurred. Reduced performance may result if full treatments are made following a frost.

See "Directions for Use", and "Mixing, Additives, and Application Instructions" sections of this label for labeled uses and specific application instructions.

Apply this product as follows to control or partially control the following woody brush and trees.

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Alar/Blackberry/Raspberries/Pine Oak/Raspberry—For control, apply 3 to 4 quarts per acre of this product as a broadcast spray or as a 1 to 1½ percent solution with hand-held equipment.

Apex, quaking Cherry, bitter, black, gum/Hawthorn/Oak, southern red/Sourwood/Trompetercreeper—For control, apply 2 to 3 quarts of this product per acre as a broadcast spray or as a 1 to 1½ percent solution with hand-held equipment.

Birch/Elderberry/Hazel/Salmonberry/Thimbleberry—For control, apply 2 quarts per acre of this product as a broadcast spray or as a 1 percent solution with hand-held equipment.

Blackberry—For control, apply 3 to 4 quarts per acre of this product as a broadcast spray, or 1 to 1½ percent solution with hand-held equipment. Make application after plants have reached full leaf maturity. Best results are obtained when applications are made in late summer or fall. After berries have set or dropped in late fall, blackberry can be controlled by applying a 3/4 percent solution of this product plus 0.5 to 1 percent nonionic surfactant by total spray nozzle with hand-held equipment. For control of blackberries after leaf drop and until killing frost or as long as stems are green, apply 3 to 4 quarts of this product in 10 to 40 gallons of water per acre.

Bramble French, Scotch—For control, apply a 1½ to 2 percent solution with hand-held equipment.

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Buckwheat, California/Mexican/Conkey Flower/Tobacco, tree—For partial control of these species, apply a 1 to 2 percent solution of this product as a leaf spray with hand-held equipment. Thorough coverage of foliage is necessary for best results.

Catalpa—For partial control, apply as a 1 to 1½ percent solution with hand-held equipment.

Cayote Bush—For control, apply a 1½ to 2 percent solution with hand-held equipment when at least 50 percent of the new leaves are fully developed.

Eucalyptus/Mangrove—For control of eucalyptus resprouts, apply a 2 percent solution of this product with hand-held equipment when resprouts are 6 to 12 feet tall. Ensure complete coverage. Apply when plants are growing actively. Avoid application to drought-stressed plants.

Kudzu—For control, apply 4 quarts of this product per acre as a broadcast spray or as a 2 percent solution with hand-held equipment. Repeat applications will be required to maintain control.

Maple, red—For control, apply as a 1 to 1½ percent solution with hand-held equipment when at least 50 percent of the new leaves are fully developed. For partial control, apply 2 to 4 quarts of this product per acre as a broadcast spray.

Maple, sugar/Oak, northern gum/Oak, red—For control, apply as a 1 to 1½ percent solution with hand-held equipment when at least 50 percent of the new leaves are fully developed.

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Madrone resprouts - For suppression or partial control, apply a 2% solution of this product to resprouts less than 3 to 6 feet tall. Best results are obtained with spring/early summer treatments.

Pepper Weevil/Pepper Girdler—For control, apply 4 to 5 quarts of this product per acre as a broadcast spray or as a 2 percent solution with hand-held equipment. Repeat applications may be required to maintain control. Fall treatments must be applied before leaves turn green color.

Red. saplings—For control, apply 2 quarts of this product per acre as a broadcast spray or as a 1 percent solution with hand-held equipment. Treatments should be made prior to leaf defoliation by leaf-feeding insects.

Sage, black/Sagebrush, California/Chinese/Tallgrass, Chinese—For control of these species, apply a 1 percent solution of this product as a tower spray with hand-held equipment. Thorough coverage of foliage is necessary for best results.

Willow—For control, apply 3 quarts of this product per acre as a broadcast spray or as a 1 percent solution with hand-held equipment.

Other Shady Green and Trees listed on this label—For partial control, apply 2 to 4 quarts of this product per acre as a broadcast spray or as a 1 to 2 percent solution with hand-held equipment.

Tan oak resprouts - For suppression or partial control, apply a 2% solution of this product to resprouts less than 3 to 6 feet tall. Best results are obtained with fall applications.

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DIRECTIONS FOR USE

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

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FARMSTEAD WEED CONTROL

When applied as directed ~~under conditions described~~ under conditions described, this product controls undesirable vegetation listed on this label around farmstead buildings, 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.

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GRASSES FOR SEED PRODUCTION

■ PREPLANT AND RENOVATION ■

When applied as directed ~~under conditions described~~ under conditions described, this product controls most existing vegetation prior to the planting or renovation of either ~~perennial~~ grass seed production areas.

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

For maximum control of existing vegetation, delay planting as long as possible if any regrowth from escaped underground plant parts occurs. Where repeat treatments are necessary, sufficient regrowth must be attained prior to application. For warm-season grasses, such as bermudagrass, summer or fall application provides best control.

DO NOT DISTURB SOIL OR UNDERGROUND PLANT PARTS BEFORE TREATMENT. Tillage or renovation techniques such as vertical mowing, curing or slicing should be delayed for 7 days after application to allow proper translocation into underground plant parts.

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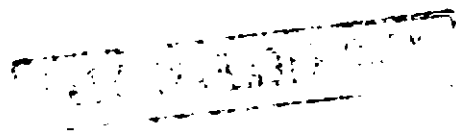
GRASSES FOR SEED PRODUCTION

Apply this product to actively growing weeds at the stages of growth given in the "Weeds Controlled" section of this label prior to planting or renovation of turf or forage grass areas grown for seed production.

DO NOT feed or graze treated areas within 6 weeks after application.

CROPPING SYSTEMS

See "General Information" and "Mixing, Additives and Application Instructions" sections of this label for essential product performance information.



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 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
BAMLEY*	MELONS***
BEARS (and	MUSTARD GREENS
BEEF GREENS	OATS*
BEETS (Red, Sugar)	OKRA
BLACKBERRY	OKRAHERRY
BLUEBERRY	ONION
BOYSENBERRY	PEANUTS
BROCCOLI	PEAS (and
CABBAGE	PEPPER***
CARROT	PINEAPPLE***
CAULIFLOWER	POTATO (and, Sweet)
CELERY	PUMPKIN***
CINCORY	RABBIT
CORN (and)	RASPBERRY (Black, Red)
COTTON*	RICE**
CRANBERRY	RUTABAGA
CUCUMBER***	SORGHUM (and)
CURRANT	SOYBEANS*
DEWBERRY	SPINACH
EGGPLANT***	SQUASH*** (Summer,
ELDERBERRY	Winter)
FORAGE GRASSES*	TOMATO***
FORAGE LEGUMES*	TOMATOES***†
GARLIC***	TURNOPS
GODOLDBERRY	WATERMELON***

← Insert in alphabetical order:

Atemoya

Carambola

Sugar apple

Yams

Parsnips

GRASS
MORSEBERRY
MUCKLEBERRY

WATERCRESS
WHEAT

- *Spot treatments may be applied in these crops.
- **Do not treat rice fields or levees 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 pineapple forage following application.
- † Use is restricted to direct seeded crops only.

Spot Treatment (Only those crops with "*" can be spot treated.)—Applications in growing crops must be made prior to heading of small grains and prior to seed set in soybeans, silking 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 rates of application using boom or hand-held equipment, see Mixing, Addition and Application Instructions and Mixing Containers 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 rice-chopping sprayers, shielded applicators, or other applicators in cotton and soybeans. Shielded and other applicators may also be used in tree crops and grains. Other applicators may be used in rutabagas, forage grasses and forage legumes, including pasture trees and sorghum molasses.

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, Apricots, Cherry Citrus	
Grains, Pear	
Rutabagas	14 days
Stone Fruit	17 days
Not Crops	21 days
Sorghum (miller)	40 days

*Do not use roller applicators. Do not feed or graze treated pine forage. Do not consume treated vegetation.

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Insert in alphabetical order:

Atemoya

Carambola

Sugar apple

ASPARAGUS

When applied as directed for "Cropping Systems" under the conditions described, this product controls weeds listed on this label as 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

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

BERRIES AND SMALL FRUITS

For cranberries, apply after fruit set and no later than 30 days before harvest.

For other berries, apply as a preplant broadcast application, or as a directed spray or wiper application post-planting.

Wiper applicators may be used in cranberries in accordance with instructions in this section.

See "General Information" and "Mixing, Additives and Application Instructions" sections of this label for essential product performance information.

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

For Wiper or other Wiper Applications—Mix 1 gallon of this product in 4 gallons of water to prepare a 20 percent solution. Apply the solution to emerged weeds. Apply after cranberry fruit set and no later than 30 days before harvest.

In severe infestations, reduce equipment ground speed to insure that adequate amounts of this product are applied on the weeds. A second treatment in the opposite direction may be beneficial.

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Do not permit herbicide solution to contact desirable vegetation including green shoots, canals, or foliage.

FALLOW AND REDUCED TILLAGE SYSTEMS

FOR AERIAL APPLICATION IN CALIFORNIA, REFER TO SUPPLEMENTAL LABEL.

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® plus BANVEL ■
- plus NONIONIC SURFACTANT ■
- ROUNDUP plus 2,4-D AMINE ■
- plus NONIONIC SURFACTANT ■
- ROUNDUP plus GOAL™ ■
- plus NONIONIC SURFACTANT ■

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

The additions of Banvel in a mixture with this product may provide short-term residual control of selected weeds

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Change "ROUNDUP" to "ACCORD CR"

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soil. 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.

Roundup® plus Goal Tank Mixtures

This product alone or in tank mixtures with Goal plus 0.5 to 1 percent nonionic surfactant by total spray volume will provide control of these weeds listed below.

Make applications when weeds are actively growing and at the recommended stages of growth. Avoid spraying when weeds are subject to moisture stress, when dust is on the foliage or when spray cannot cover the weeds.

ROUNDUP® 12 oz/acre ROUNDUP-16 oz/acre

Wheat	18"	Annual grasses at	
Barnyard	12"	leaf plus	
Bluegrass,		Ryegrass,	
annual	6"	annual	6"
Barnyardgrass	6"	Chickweed	6"
Rye	6"	Grounds	6"
		Marestail	6"
		Rocket, London	6"
		Shepherdspurse	6"
		Croton	12"
		Johnsongrass,	
		seedling	12"
		Lambsquarters	12"
		Oats, wild	12"
		Pigweed redroot	12"
		Stellaria	12"

1987 Roundup-16

ROUNDUP 12 oz/acre

ROUNDUP 16 oz/acre

Change "ROUNDUP" to "ACCORD CR"

GOAL** 2 to 4 oz/acre

GOAL** 2 to 4 oz/acre

Annual grasses above
plus:

Annual weeds above
plus:

Chenopodium common 3"
Chickweed 3"
Groundsel 3"
Ragwort 6"
Shepherdspurse 6"

Chenopodium common 6"
Groundsel 6"
Chickweed 12"
Ragwort 12"
Shepherdspurse 12"

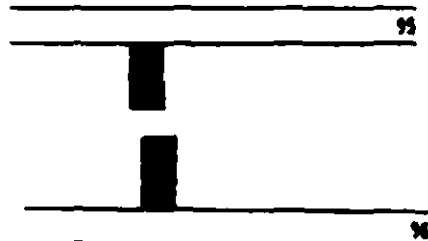
*Maximum height or length in inches.

**Use the higher rate when weeds approach maximum recommended height or stands are dense.

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

*Chen is a trademark of E. I. du Pont de Nemours and Company.

**Rag is a trademark of Rohm and Haas Company.



AND TO TILLAGE

This product when used in conjunction with preplant tillage practices will control annual and perennial weeds, grasses, and forage crops. Apply 3 fluid ounces of this product plus 0.5 to 1 percent non-ionic surfactant by aerial spray means in 3 to 10 gallons of water per acre. Make applications when weeds are actively growing and before they are 6 inches in height. Application must be followed by conventional tillage practices no later than 15 days after treatment and before regrowth occurs. Allow at least 1 day after application before tillage. Tank mixtures with residual herbicides may result in reduced performance.

PASTURES

Apply this product prior to planting forage grasses and legumes.

Pasture or Hay Crop Resistant—When applied as a broadcast spray this product controls the annual and perennial weeds listed in this label prior to planting forage grasses or legumes. Remove domestic livestock before application and wait 6 weeks after application before grazing or harvesting.

Spot Treatment—When applied as a spot treatment as recommended, this product controls annual and perennial weeds listed in this label which are growing in pastures, forage grasses and forage legume crops.

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of bahiagrass, bermudagrass, bluegrass, brome, fescue, orchardgrass, ryegrass, timothy, wheatgrass, alfalfa or clover.

Wiper Application—When applied as directed this product controls or suppresses the weeds listed under "Wiper Applications" in the "Selective Equipment" section of this label. For spot treatment and wiper application, apply in areas where the movement of domestic livestock can be controlled. No more than one-tenth of any acre should be treated at one time. Further applications may be made in the same area at 30 day intervals. Remove domestic livestock before application and wait 14 days after application before grazing livestock or harvesting.

SUGARCANE

When applied as directed for "Crapping Systems" under the condition described, this product controls those emerged annual and perennial weeds listed on this label growing in or around sugarcane or in fields to be planted to sugarcane. This product will also control undesirable sugarcane.

NOTE: Where repeat treatments are necessary, do not exceed a total of 10.6 quarts of this product per acre per year. Do not apply to vegetation in or around ditches, canals or ponds containing water to be used for irrigation.

Broadcast Treatment—Apply this product in 10 to 40 gallons of water per acre on emerged weeds growing in fields to be planted to sugarcane.

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

For removal of last stubble or ratoon cane, apply 4 to 5 quarts of this product in 10 to 40 gallons of water per acre to new growth having at least 7 or more new leaves. Allow 7 or more days after application before tillage.

Spot Treatment in or Around Sugarcane Fields—For dilution and rates of application using hand-held equipment, see "Mixing, Additives and Application Instructions" and "Weeds Controlled" sections of this label.

For control of volunteer or downed sugarcane, make a 1 percent solution of this product in water and spray to wet the foliage of vegetation to be controlled.

NOTE: When spraying volunteer or downed sugarcane, the plants should have at least 7 new leaves.

Avoid spray contact with healthy cane plants since severe damage or destruction may result.

Do not feed or graze treated sugarcane forage following application.

■ MINIMUM TILLAGE SYSTEMS ■ Tank Mixtures CORN AND SOYBEANS

When applied as recommended under the conditions described, these tank mixtures control many emerged weeds, and give preemergence control of many annual weeds when corn or soybeans will be planted directly into

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a cover crop, established seed, or in previous crop residues.

Refer to specific product labels for crop rotation restrictions and cautionary statements of all products used in these tank mixtures. For mixing instructions, see the Mixing, Additives and Application Instructions section of this label.

CORN

- ROUNDUP® plus LASSO® ■
- ROUNDUP® plus LASSO plus ATRAZINE ■
- ROUNDUP® plus LASSO plus BLADE® ■
- ROUNDUP® plus LASSO plus SIMAZINE ■
- ROUNDUP® plus ATRAZINE plus SIMAZINE ■

SOYBEANS

- ROUNDUP® plus LASSO® ■
- ROUNDUP® plus LASSO plus LIGNON ■
- ROUNDUP® plus LASSO plus LEZORE® ■
- ROUNDUP® plus LASSO plus SECOR® ■

Change "ROUNDUP" to "ACCORD CR"

Apply these tank mixtures in 10 to 40 gallons of water per acre after planting or during planting in such manner that the planter does not occlude the treated soil. Do not apply these mixtures after crop emergence.

REDUCED CONTROL MAY RESULT IF THIS PRODUCT IS USED IN TANK MIXTURES CONTAINING FLUID FERTILIZERS

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CONTROL OF EMERGED WEEDS

Annual Weeds—Apply to actively growing grasses and broadleaf weeds. Use 1 quart of Roundup herbicide per acre in these tank mixtures if weeds are less than 6 inches tall. If weeds are over 6 inches tall, apply 1.5 quarts of this product per acre. For emergent annual weeds controlled, see the "Weeds Controlled" section of this label.

Perennial Weeds—At normal application rates in minimum tillage systems, perennial weeds may not be at the proper stage of growth for control. See the "General Information" section of this label for the proper stage of growth for perennial weeds.

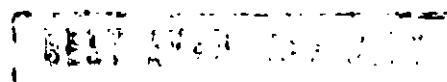
Use of 2 to 4 quarts of Roundup herbicide per acre in these tank mixtures, under these conditions provides top kill and reduces competition from many emergent perennial grass and broadleaf weeds. For emergent perennial weeds controlled, see the "Weeds Controlled" section of this label.

To obtain the desired stage of growth, it may be necessary to apply Roundup herbicide plus in the late summer or fall and then follow with a label-approved, soil-applied weed control program at planting.

NOTE: When using these tank mixtures, do not exceed 4 quarts of Roundup herbicide per acre.

USE OF THESE TANK MIXTURES FOR BERMUDAGRASS OR JOHNSONGRASS CONTROL IN MINIMUM TILLAGE SYSTEMS IS NOT RECOMMENDED. For bermudagrass control, follow the instructions under "Control of Perennial Weeds" section of this label and then use a label-

this product



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approved, seedling weed-control program in a minimum tillage or conventional tillage system. For Johnsongrass control, follow the instructions under "Control of Perennial Weeds" section of the label, and then use a label-approved seedling weed-control program with conventional tillage.

The following are labeled ranges for the recommended preemergence herbicides:

PRODUCT	RATES/ACRE	
	(QUARTS)	(POUNDS)
Lambs	2 to 4	•
Atrazine 4L	1 to 2	•
Atrazine 80WP	•	1.25 to 2.3
Atrazine 90DF	•	1.1 to 2
Bladen 4L	1 to 2.2	•
Bladen 80WP	•	1.25 to 2.75
Simazine 4L	1 to 2.2	•
Simazine 80WP	•	1.25 to 2.75
Linuron 4L	0.5 to 1.5	•
Linuron 50WP	•	1 to 3
Lexone 4L or Sencor 4F	0.25 to 0.75	•
Lexone or Sencor 50 WP	•	0.5 to 1.55
Lexone or Sencor 75DF	•	0.33 to 1

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

[®] Lexone is a registered trademark of Monsanto Company.

[™] Bladen and [™] Lexone are trademarks of E. I. du Pont de Nemours and Company.

[™] Sencor is a trademark of the parent company of Fortablandwerk Bayer GmbH, Leverkusen.

PREHARVEST APPLICATIONS

When applied as directed under the conditions described, this product controls annual and perennial weeds listed on the label prior to the harvest of COTTON.

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.

Broadcast Applications—This product may be applied using either aerial or ground spray equipment. For ground applications with broadcast equipment, apply this product in 10 to 40 gallons of water per acre. For aerial applications, apply this product in 3 to 15 gallons of water per acre.

To control Johnsongrass using multiple nozzle-directed spray equipment, apply 1 quart of this product plus 0.5 to 1 percent nonionic surfactant by total spray volume in 10 to 20 gallons of water per acre. Ensure complete coverage.

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For control of field bindweed, apply one quart of this product plus 0.5 to 1 percent nonionic surfactant by total spray volume in 3 to 40 gallons of water per acre. Apply when bindweed is actively growing and 12 inches or greater in length. Reduced performance may result if bindweed is under drought stress.

Tank Mixtures

Roundup plus Gel[®] G
Roundup plus Folin[®]

Change "ROUNDUP" to "ACCORD CR"

When applied as recommended under the conditions described, these tank mixtures control annual and perennial weeds listed on this label prior to the harvest of cotton. For application guidelines, precautions and defoliant rates, refer to the supplemental label for cotton harvest aid.

Timing of Application—Apply this product or these tank mixtures for preharvest weed control after 60 percent of the cotton bolls have opened.

NOTE: DO NOT APPLY TO CROPS GROWN FOR SEED.

Allow a minimum of 7 days between application and harvest.

Do not feed or graze treated cottonseed forage or hay following preharvest applications.

[®]Gel is a trademark of Mobay Chemical Corporation.

[®]Folin is a trademark of E.I. du Pont de Nemours and Co.

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TREE AND VINE CROPS

This product is recommended for weed control in established groves, vineyards, or orchards, or for site preparation prior to transplanting citrus listed in this section. Applications may be made with boom equipment, COA, shielded sprayers, hand-held and high-volume wand, lance, or orchard gun, or with other 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 MATURED BROWN BARK CAN RESULT IN SERIOUS CROP DAMAGE.

this product

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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 Control" 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 GOML® 1.6E	■
■	ROUNDUP plus LAMDEX® WP	■
■	ROUNDUP plus LERONE® I	■
■	ROUNDUP plus LERONE® II	■
■	ROUNDUP plus SIMAZINE CALIBER® 90	■
■	ROUNDUP plus SIMAZINE 4L	■
■	ROUNDUP plus SIMAZINE 80W	■

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■		■
■		■

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■	ROUNDUP plus SOLICAN® 80WP	■
■	ROUNDUP plus SURFLAN® AS	■
■	ROUNDUP plus SURFLAN 75W	■
■	ROUNDUP plus SIMAZINE (80W, or 4L, or CALIBER 90) plus SURFLAN 60S or 75W	■
■	ROUNDUP plus GOML (1.6E) plus SURFLAN 60S or 75W	■
■	ROUNDUP plus GOML (1.6E) plus SIMAZINE (80W, or 4L, or CALIBER 90)*	■
■	ROUNDUP plus GOML (1.6E) plus SURFLAN 60S or 75W plus simazine (80W, 4L, or Caliber 90)	■

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*See the Roundup plus GOML plus simazine tank mixture section below for specific use instructions.

When tank-mixing with residual herbicides, add an agriculturally approved contact herbicide.

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 12 inches tall. For weeds greater than 12 inches tall, apply 1.5 quarts per acre.

DEPT. OF AGRICULTURE

Perennial Weeds—For 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.

PRE-EMERGENCE WEED CONTROL

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

PRODUCT	RATE/ACRE
Goal 1 GE	1.25 to 5 qts.
Harmon WP	2 to 8 lbs.
Prover I	2 to 8 lbs.
Prover 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 80WP	2 1/4 to 5 lbs.
Surflan AS	2 to 4 qts.
Surflan 75W	2 1/4 to 5 1/4 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.

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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 restrictions see the "Weeds Controlled" section of this label.

Roundup alone and Roundup plus Goal tank mixtures will control or suppress annual weeds listed below.

Apply the recommended rates of Roundup 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.

RECOMMENDED RATES AND WEEDS CONTROLLED

C = Control S = Suppress

WEEDS SPECIES	Roundup rate (fl oz/acre)			Roundup + Goal (fl oz/acre)
	8	12	16	16 + 4 to 16
Barnyard grass	C	C	C	C
Barley	C	C	C	C
Chenopod.	S	S	S	C
Common (J?)				
Crack. Lamb.	S	S	C	C
Shepherdsp.	S	S	C	C
Chickweed	S	C	C	C
Flowers.	S	C	C	C
Flaxweed				
Red Blood	S	C	C	C

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16 + 4 to 16

Barnyardgrass	S	C	C	C
Chenopod. common (3-6")	S	S	S	C
Croftgrass	S	S	C	C
Groundsel common	S	S	C	C
Juglans	S	S	C	C
Lambquarters	S	S	C	C
Marestail	S	S	C	C
Pigweed	S	S	C	C
radish				
Ryegrass	S	S	C	C
common				
Southside	S	S	C	C
annual				
Purslane	S	S	C	C
common				
Nettle	S	S	C	C
stinging				
Flare	S	S	S	S

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Roundup® plus GOAL plus SIMAZINE
California only

Roundup may be combined with Goal plus Simazine for broad-spectrum weed control and preemergence control. Refer to the following table for suggested crops and rate ranges for each product in this tank mix. Refer to the individual product labels for weeds controlled, geographical restrictions, precautionary statements and specific use rates.

RATE RANGES*

CROP	ROUNDUP® quarts	GOAL + 1.6E quarts	SIMAZINE + 80W** pounds
	quarts	quarts	pounds
Grass	1 to 1.5	1.25 to 5	2.5 to 5
Almond	1 to 1.5	1.25 to 5	1.25 to 2.5

Use equivalent rate of Caliber 90 or Simazine 4L.

*Rate dependent on weeds present.

**Rate dependent on soil type and weeds present.

Roundup® plus GOAL plus SIMAZINE/SURFLAN

This product plus Goal, applied alone or as a three-way or four-way with Simazine and/or Surflan, will provide preemergence control of these 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 to 3 to 40 gallons of water. Add 0.5 to 1 percent nonionic surfactant by total spray volume of the spray solution.

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WEEDS CONTROLLED

Weed Species	Maximum Height (inches)	Roundup + Goal (quarts/acre)
Barley	4	0.5 to 1 + 0.5 to 5
wild		
Bluegrass	4	0.5 to 1 + 0.5 to 5
annual		
Cheeseweed	4	0.5 to 1 + 0.5 to 5
common		
Chickweed	4	0.5 to 1 + 0.5 to 5
common		
Flaxweed	4	0.5 to 1 + 0.5 to 5
Heaven		
Groundnut	4	0.5 to 1 + 0.5 to 5
common		
Marestail	4	0.5 to 1 + 0.5 to 5
Phacelia	4	0.5 to 1 + 0.5 to 5
Rocket, London	4	0.5 to 1 + 0.5 to 5
Shepherdspurse	4	0.5 to 1 + 0.5 to 5
Sewerwort	4	0.5 to 1 + 0.5 to 5
annual		
Cheeseweed common	12	1 to 1.5 + 1 to 5
Nettle	12	1 to 1.5 + 1 to 5
stinging		
Flaxweed	12	1 to 1.5 + 1 to 5

*Roundup is a trademark of Roundup and Herb Company

**Sawdust is a trademark of Sawdust, Inc.

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PERENNIAL GRASS SUPPRESSION ORCHARD FLOORS

When applied as directed this product will suppress vegetative growth at orchard floors.

Background

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 gpm 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 or threat 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 the product plus nonionic surfactant. A second sequential application of 2 to 4 fluid ounces may be made approximately 45 days after the last application.

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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.

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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.

Cool Season Grass Covers

For suppression of tall fescue, fine fescue, orchardgrass and quackgrass, apply 8 fluid ounces of this product plus 0.5 to 1 percent nonionic surfactant by total spray volume in 10 to 20 gallons of water per acre. For best suppression, add ammonium sulfate to the spray solution at a rate of 2 percent by weight or 17 pounds per 100 gallons of spray solution.

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), diseases or insect damage.

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LOW VOLUME APPLICATION (FLORIDA AND TEXAS)

For burndown or control of listed perennial weeds, apply the recommended rate of this product plus 0.5 to 1 percent nonionic surfactant by total spray volume in 3 to 20 gallons of water per acre. Where weed foliage is dense, use 10 to 20 gallons of water per acre.

Apply when weeds are actively growing and at the growth stages listed in the "Perennial Weeds Controlled" section of this label. If perennial weeds are mowed, allow weeds to regrow to the recommended stage of growth.

S = Suppression B = Burndown
PC = Partial control C = Control

WEED SPECIES	RECOMMENDED RATE PER ACRE			
	1 qt	2 qts	3 qts	5 qts
Bermudagrass	B	•	PC	C
Guineagrass				
Texas and Florida Ridge	B	C	C	C
Florida Flatwoods	•	B	C	C
Paragrass	B	C	C	C
Tortoisegrass	S	•	PC	C

Delete

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TREE CROPS

Citrus: citron, grapefruit, navel, lemon, lime, orange, tangor, tangeline

Nut: almond, filbert, macadamia, pecan, pistachio, walnut

Pome Fruit: apple, pear

Stone Fruit: apricot, cherry, nectarine, olive, peach, plum, prune

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

For citron and olive, apply as a directed spray only.

Any application equipment used in this section may be used in apricot, nectarine, peach, and plum/prune growing in Arizona, California, Colorado, Idaho, Kansas, Kentucky, New Jersey, 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 wider equipment only.

For PEACHES grown in Alabama, Arkansas, Florida, Georgia, Louisiana, Mississippi, North Carolina, South Carolina, and Tennessee only, apply with a shielded boom sprayer or shielded wiper applicator which prevents any contact of this product with the foliage or bark of trees. Apply no later than 90 days after first bloom. Applications made after this time may result in severe damage.

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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.

Tropical Fruit: avocados, guavas (guayaba), coffee***, guava, mango, papaya, etc. Allow minimum of 1 day between last application and harvest of guava and papaya. In coffee and banana, delay applications 3 months after transplanting to allow the new coffee or banana to become established.

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- *Allow a minimum of 7 days between last application and harvest.
- **Allow a minimum of 14 days between last application and harvest of these crops.
- ***Allow a minimum of 17 days between last application and harvest.
- ****Allow a minimum of 28 days between last application and harvest.

VINE CROPS

Wine Fruit*

Grapes: Any variety of table, wine, or raisin grapes 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.

CALIFORNIA

~~Registration~~ has been approved by the U.S. Environmental Protection Agency for the use, crop and area listed in this label and by California under label designation 48000. Approval of the name listed below is pending under the State of California registration requirements. With the exception of these areas, the label contains the material approved by California in label 48000.

These use conditions, crops and areas may not be treated with this product in California until approval is received:

- Aerial application of ~~48000~~ plus ~~Quat~~ at the rate of 5 to 15 gallons of spray solution per acre for control of rot.
- Prior to planting or transplanting of strawberries.
- Low-volume misters.

This product

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U.S. Pat. No. 4,405,531
Other patents pending.

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~~For product information, contact your local
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