



The complete broadspectrum
postemergence professional herbicide
for industrial, turf and ornamental
weed control.

Complete Directions for Use

EPA Reg. No. 524-475

AVOID CONTACT OF HERBICIDE WITH
FOLIAGE, GREEN STEMS, EXPOSED
NON-WOODY ROOTS OR FRUIT OF
CROPS, DESIRABLE PLANTS AND TREES.
BECAUSE SEVERE INJURY OR DESTRUC-
TION MAY RESULT.

*Roundup is a registered trademark of Monsanto Company

1995-2 21032-1/63

BEST AVAILABLE COPY

CONTENTS

2

Read the entire label before using this product.

Use only according to label instructions.

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

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

REFORMULATION IS PROHIBITED. SEE INDIVIDUAL CONTAINER LABEL FOR REPACKAGING LIMITATIONS.

CONTENTS

1	1.0	INGREDIENTS	3
2	2.0	IMPORTANT PHONE NUMBERS	4
3	3.0	PRECAUTIONARY STATEMENTS	4
	3.1	Hazards to Humans and Domestic Animals	4
	3.2	Environmental Hazards	5
	3.3	Physical or Chemical Hazards	5
4	4.0	STORAGE AND DISPOSAL	7
5	5.0	GENERAL INFORMATION	7
6	6.0	MIXING	9
	6.1	Mixing with Water	10
	6.2	Tank Mixing Procedure	10
	6.3	Mixing for Hand-Held Sprayers	11
	6.4	Colorants or Dyes	11
7	7.0	APPLICATION EQUIPMENT AND TECHNIQUES	11
	7.1	Aerial Equipment	12
	7.2	Ground Broadcast Equipment	13
	7.3	Hand-Held and High-Volume Equipment	13
	7.4	Selective Equipment (Wipers, etc.)	13
	7.5	Injection Systems	16
	7.6	COA Equipment	16
8	8.0	SITE AND USE RECOMMENDATIONS	16
	8.1	Cult Stumps	16
	8.2	General Noncrop Areas and Industrial Sites	17
	8.3	Habitat Management	17
	8.4	Injection and Fertilizer (Woody Brush and Trees)	20
	8.5	Ornamentals and Plant Nurseries	21
		Christmas Trees	21
	8.6	Parks, Recreational and Residential Areas	22
	8.7	Railroads	22
	8.8	Roadsides	24
9	9.0	WEEDS CONTROLLED	27
	9.1	Annual Weeds	27
	9.2	Perennial Weeds	29
	9.3	Woody Brush and Trees	31
10	10.0	LIMIT OF WARRANTY AND LIABILITY	35

1.0 INGREDIENTS

ACTIVE INGREDIENT

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

41.9

INERT INGREDIENTS (including surfactant)

58.0

100.0

Contains 150 grams per liter or 4 pounds per 11.5 gallons of the active ingredient glyphosate, in the form of its isopropylamine salt. Equivalent to 33.6 grams per liter or 1.1 pounds per 11.5 gallons of the acid glyphosate.

This product is protected by U.S. Patent Nos. 4,141,000 and 4,141,001, pending. Also covered by Canadian and foreign patents.

INGREDIENTS

3

BEST AVAILABLE COPY

2.0 IMPORTANT PHONE NUMBERS

1. FOR **PRODUCT INFORMATION** OR ASSISTANCE IN USING THIS PRODUCT, CALL TOLL-FREE:

1-800-332-3111

2. IN CASE OF AN EMERGENCY INVOLVING THIS PRODUCT, OR FOR **MEDICAL ASSISTANCE**, CALL COLLECT, DAY OR NIGHT:

1-314-694-4000

3.0 PRECAUTIONARY STATEMENTS

3.1 Hazards to Humans and Domestic Animals

Keep out of reach of children.

CAUTION!

HARMFUL IF INHALED.

CAUSES EYE IRRITATION.

Avoid contact with eyes or clothing.

Avoid breathing vapor or spray mist.

FIRST AID: IF INHALED, remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

IF IN EYES, flush with plenty of water. Get medical attention if irritation persists.

DOMESTIC ANIMALS This product is considered to be relatively nontoxic to dogs and other domestic animals, however, ingestion of this product or large amounts of freshly sprayed vegetation may result in temporary gastrointestinal irritation (vomiting, diarrhea, colic, etc.). If such symptoms

are observed, provide the animal with plenty of fluids to prevent dehydration. Call a veterinarian if symptoms persist for more than 24 hours.

Personal Protective Equipment (PPE)

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

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

User Safety Recommendations:

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets on it. Then wash thoroughly and put on clean clothes.

3.2 Environmental Hazards

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

3.3 Physical or Chemical Hazards

Ignites and burns. This product is very flammable and should be stored in a cool, dry place. Do not use near open flames or heat. Do not use in confined spaces.

PRECAUTIONARY STATEMENTS

5

BEST AVAILABLE COPY

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

DIRECTIONS FOR USE

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

Agricultural Use Requirements

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

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 4 hours.

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

Non-Agricultural Use Requirements

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

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

4.0 STORAGE AND DISPOSAL

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

See container label for STORAGE AND DISPOSAL instructions.

5.0 GENERAL INFORMATION

Product Description: This product is a postemergent, systemic herbicide with no soil residual activity. It gives broad spectrum control of many annual weeds, perennial weeds, woody brush and trees. It is formulated as a water-soluble liquid containing 14.5 percent surfactant and no additional surfactant is needed or recommended.

Environmental Fate: When this product comes in contact with the soil it is bound to soil particles. When applied in accordance with label directions, once this product is bound to soil it is not available for plant uptake and will not harm plants. It is not transported off-site. The strong affinity of the product for soil particles prevents this product from being transported through soil and entering ground water. The affinity of this product and soil particles, along with its rapid degradation, which is primarily by microbial processes, limits its movement under both aerobic and anaerobic conditions.

GENERAL INFORMATION

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

Cultural Considerations: 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.

Rainfastness: Heavy rainfall soon after application may wash this product off of the foliage and a repeat application may be required for adequate control.

No Soil Activity: Weeds must be emerged at the time of application to be controlled by this product. Weeds germinating from seed after application will not be controlled. Unemerged plants arising from unattached underground rhizomes or root stocks of perennials will not be affected by the herbicide.

Tank Mixing: This product does not provide residual weed control. For subsequent residual weed control, follow a label-approved herbicide program. Read and carefully observe the cautionary statements and all other information appearing on the labels of all herbicides used. Use according to the most restrictive label directions for each product in the mixture.

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

Annual Maximum Use Rate: The combined rate of all treatments should not exceed 10.6 quarts of this product per acre per year.

ATTENTION

Apply this product to weeds only. Do not apply to desirable plants. Do not apply to crops, ornamentals, or other plants. Do not apply to lawns, golf courses, or other areas where it may be injurious to desirable plants.

ALWAYS USE 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 spray on to desirable vegetation. Since minute quantities of this product can cause severe damage or destruction to the crop, plants or other areas on which treatment was not intended. The likelihood of injury resulting 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 low air temperatures, will allow spray drift to occur. When spraying, use a combination of pressure and nozzle type that will result in a pattern of fine particles (mists) which are likely to drift. Apply at EXCESSIVE SPEED OR PRESSURE.

NOTE: Do not apply this product to any crop or ornamental which has been treated with a herbicide which is known to be injurious to the crop or ornamental. Do not apply this product to any crop or ornamental which has been treated with a herbicide which is known to be injurious to the crop or ornamental.

6.0 MIXING

Do not mix this product with any other herbicide or pesticide. Do not mix this product with any other material.

NOTE: Do not mix this product with any other herbicide or pesticide. Do not mix this product with any other material.

MIXING

6.1 Mixing with Water

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 recommended amount of this product near the end of the filling process and mix well. Remove hose from tank immediately after filling to avoid siphoning back into the carrier source. During mixing and application, foaming of the spray solution may occur. To prevent or minimize foam, avoid the use of mechanical agitators, terminate by-pass and return lines at the bottom of the tank and, if needed, use an approved anti-foam or defoaming agent.

6.2 Tank Mixing Procedure

When tank mixing, read and carefully observe the label claims, cautionary statements and all information on the labels of all products used. Add the tank mix product to the tank as directed by the label. Maintain agitation and add the recommended amount of this product.

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

Keep by-pass line on or near the bottom of the tank to minimize foaming. Screen size in nozzle or line strainers should be no finer than 50 mesh.

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

Refer to the "Tank Mixing" section of "GENERAL INFORMATION" for additional precautions.

6.3 Mixing for Hand-held Sprayers

For use in backpack sprayers, it is suggested that the recommended amount of this product be mixed with water in a larger container. Fill sprayer with the mixture as follows:

Spray Solution

Desired Volume	Amount of Roundup® PRO					
	½%	1%	1½%	2%	5%	10%
1 Gal. (4 qt)	1 ½ oz	1 qt	2 oz	2 ½ oz	6 ½ oz	13 oz
25 Gal. 1 pt	1 qt	1 qt	1 ½ qt	2 qt	5 qt	10 qt
100 Gal. 2 qt	1 qt	1 qt	1 ½ qt	2 qt	5 qt	10 qt

2 tablespoons = 1 fluid ounce

For use in knapsack sprayers, it is suggested that the recommended amount of this product be mixed with water in a larger container. Fill sprayer with the mixture as follows:

6.4 Colorants or Dyes

Appropriately approved colorants or marking dyes may be added to the spray solution to mark treated areas. The product is not intended for use as a colorant or dye. The use of colorants or dyes may affect the performance of the product. Do not use colorants or dyes that contain oil-soluble pigments or dyes.

7.0 APPLICATION EQUIPMENT AND TECHNIQUES

For use in backpack sprayers, it is suggested that the recommended amount of this product be mixed with water in a larger container. Fill sprayer with the mixture as follows:

7-11-5

FOR AERIAL APPLICATION IN CALIFORNIA: REFER TO THE FEDERAL SUPPLEMENTAL LABEL FOR AERIAL APPLICATIONS IN THAT STATE FOR SPECIFIC INSTRUCTIONS, RESTRICTIONS AND REQUIREMENTS. This product plus One™ Banzel™ or 2-4-D tank mixtures may not be applied by air in California.

AVOID DRIFT - DO NOT APPLY DURING LOW LEVEL INVERSION CONDITIONS WHEN WINDS ARE GUSTY OR UNDER ANY OTHER CONDITION WHICH FAVORS DRIFT. DRIFT IS LIKELY TO 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.

Avoid direct application to any body of water

Use the recommended rates of this herbicide in 3 to 25 gallons of water per acre.

Coarse sprays are less likely to drift, therefore, do not use nozzles or nozzle configurations which dispense 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.

to insure uniform application. To avoid streaking, use paper
overlapped and cut in the appropriate marking places.

CONFIDENTIAL - SECURITY INFORMATION

As the *Journal of the American Medical Association* (JAMA) has been the most widely cited journal in the field of medicine, we used the JAMA as a proxy for the medical literature. We used the JAMA as a proxy for the medical literature because it is the most widely cited journal in the field of medicine. We used the JAMA as a proxy for the medical literature because it is the most widely cited journal in the field of medicine.

7.2 Ground Broadcast Equipment

4. If the recommended range of α is 0.01 to 0.10, a number of other parameters must be specified. These are listed in Table A.1. For α less than 0.05, β should be increased to allow for recommended range to design completely. For β greater than 0.05, proper number of β is 0.01, 0.05, 0.10, 0.50, 1.0, 5.0, 10, 50, 100, 500, 1000. If β is not in the list, use the next higher value. For β greater than 1000, use 1000.

7.3 Hand-Held and High-Volume Equipment

[illegible]

7.4 Selective Equipment

[illegible]

being intercepted by weeds is collected and returned to the spray tank for reuse.

A shielded or hooded applicator directs the herbicide solution onto weeds while shielding desirable vegetation from the herbicide.

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

AVOID CONTACT OF HERBICIDE WITH DESIRABLE VEGETATION AS SERIOUS INJURY OR DEATH IS LIKELY TO OCCUR

Applicators used above desired vegetation should be adjusted so that the lowest spray, stream or wiper contact point is at least 2 inches above the desirable vegetation. Droplets, mist, foam, or splatter of the herbicide solution settling on desirable vegetation is likely to result in discoloration, stunting or destruction.

Better results may be obtained when 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.

Shielded and hooded applicators

Use nozzles that provide uniform coverage within the treated area. Keep shields on these sprayers adjusted to protect desirable vegetation. **EXTREME CARE MUST BE EXERCISED TO AVOID CONTACT OF HERBICIDE WITH DESIRABLE VEGETATION.**

Wiper applicators and sponge bars

Equipment must be designed, maintained and operated to prevent the herbicide solution from contacting desirable vegetation. Operate this equipment at low speeds, no greater than 6 mph. Perfecting a wiper or sponge applicator is a difficult task. It takes time and practice to get the application right.

1. Do not operate at high speeds. Better results may be obtained if applications are made in applications.

2. Adjust the wiper or sponge applicator to the height of the weeds. Adjust the wiper or sponge applicator to the height of the weeds. Adjust the wiper or sponge applicator to the height of the weeds. Adjust the wiper or sponge applicator to the height of the weeds.

3. If the wiper or sponge applicator is not working properly,

Make sure the wiper or sponge applicator is properly adjusted. Make sure the wiper or sponge applicator is properly adjusted. Make sure the wiper or sponge applicator is properly adjusted. Make sure the wiper or sponge applicator is properly adjusted.

For Rope or Sponge Wick Applicators Mix 1 gallon of this product in 2 gallons of water to prepare a 33 percent solution. Apply this mixture to weeds in the following manner:

For Porous Plastic Applicators and pressure-feed systems

Solutions ranging from 33 to 100 percent of this product in water may be used.

Weeds applied to are shown in the following table. The following weeds:

Common ragweed	Black nightshade
Field bindweed	Spiny cholla
Ragweed	Blackberry
Crabgrass	

When applied to weeds, the following weeds are shown in the following table.

Redroot pigweed	Blackberry
Field bindweed	Spiny cholla
Ragweed	Blackberry
Crabgrass	
Common ragweed	Black nightshade
Field bindweed	Spiny cholla
Ragweed	Blackberry
Crabgrass	

7.5

7.5 Injection Systems

This product may be used in areas of ground water injection systems. It may be used as a liquid concentrate or diluted prior to injecting into the spray stream. Do not mix the product with the concentrate of other products when using injection systems.

7.6 CDA Equipment

The rate of this product applied per acre by controlled droplet application equipment (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.

CDA 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 is likely to result.

8.0 SITE AND USE RECOMMENDATIONS

Detailed instructions follow alphabetically by site.

Unless otherwise specified, applications may be made to control any weeds listed in the annual, perennial and woody brush tables. Refer also to the SELECTIVE EQUIPMENT section.

8.1 Cut Stumps

Cut stump treatments may be made on any site listed on this label. The product will control many types of woody brush and stumps. For best results, cut the stump to a height of 1 to 2 feet above the ground. Apply the product to the cut surface of the stump. The product will kill the stump and the roots will decay. The stump will fall over and the roots will decay. The stump will fall over and the roots will decay.

The first application should be made within 10 days of cutting. A second application may be made 30 to 60 days after the first application. The product will kill the stump and the roots will decay. The stump will fall over and the roots will decay.

Apply the product to the cut surface of the stump. The product will kill the stump and the roots will decay. The stump will fall over and the roots will decay. The stump will fall over and the roots will decay.

Apply the product to the cut surface of the stump. The product will kill the stump and the roots will decay. The stump will fall over and the roots will decay. The stump will fall over and the roots will decay.

8.2 General Noncrop Areas and Industrial Sites

This product may be used in noncrop areas and industrial sites. It may be used as a liquid concentrate or diluted prior to applying. Do not mix the product with the concentrate of other products when using injection systems.

General weed control, Trim and edge and Bareground

This product may be used in noncrop areas and industrial sites. It may be used as a liquid concentrate or diluted prior to applying. Do not mix the product with the concentrate of other products when using injection systems.

SITE AND USE RECOMMENDATIONS 18

Repeated applications of this product may be used to weed edges to maintain bare ground.

This product may be tank mixed with the following products. Refer to these products' labels for approved crops, uses and application rates.

ARSENAL™	SIMAZINE
BANVEL	SIMAZINE 4L
DIURON	SIMAZINE 80W
KRELLAR™	SURFLAN™ 75W
KRELLAR II	SURFLAN AS
OUST	TELAR™
PRINCEP™ CALIPER™ 90	2,4-D
RONSTAR™ 50WP	ESCORT™

Oust, Banvel and 2,4-D tank mixtures may not be applied by air in California.

This product is not registered for use with Arsenal or Escort in California.

When applied as a tank mixture for bare ground, this product provides control of the emerged annual weeds and control or partial control of emerged perennial weeds, woody brush and trees.

For control or partial control of the following perennial weeds, apply 1 to 2 quarts of this product plus 2 to 4 quarts of Oust per acre.

Bahiagrass	Johnsongrass
Bermudagrass	Portulac
Broomsedge	Quackgrass
Dock, curly	Trumpet creeper
Duglennet	Vaseygrass
Fescue, tall	Vervain, blue

Chemical mowing

This product is used to control weeds and grasses in areas where mowing is not practical. It is used to control weeds and grasses in areas where mowing is not practical. It is used to control weeds and grasses in areas where mowing is not practical.

For control of weeds and grasses in areas where mowing is not practical, apply 1 to 2 quarts of this product plus 2 to 4 quarts of Oust per acre.

For control of weeds and grasses in areas where mowing is not practical, apply 1 to 2 quarts of this product plus 2 to 4 quarts of Oust per acre.

Dormant turfgrass

This product is used to control weeds and grasses in areas where mowing is not practical. It is used to control weeds and grasses in areas where mowing is not practical. It is used to control weeds and grasses in areas where mowing is not practical.

For control of weeds and grasses in areas where mowing is not practical, apply 1 to 2 quarts of this product plus 2 to 4 quarts of Oust per acre.

Turfgrass renovation

This product is used to control weeds and grasses in areas where mowing is not practical. It is used to control weeds and grasses in areas where mowing is not practical. It is used to control weeds and grasses in areas where mowing is not practical.

For control of weeds and grasses in areas where mowing is not practical, apply 1 to 2 quarts of this product plus 2 to 4 quarts of Oust per acre.

8.3 Habitat Management

Habitat restoration and management

This product is used to control weeds and grasses in areas where mowing is not practical. It is used to control weeds and grasses in areas where mowing is not practical.

SITE AND USE RECOMMENDATIONS 19

BEST AVAILABLE COPY

11/1/50

suitable vegetation in habitat management and restoration. Application is made to the soil surface, not to the plant species, to prevent burning desirable native species, and for smaller broad-leaf, from vegetation control requirements. Spot treatments can be made to selectively remove unwanted plants for habitat management and enhancement.

Wildlife food plots

This product may be used as a site preparation treatment prior to planting wildlife food plots. Any wildlife food species may be planted after applying this product, or native species may be allowed to repopulate the area. If tillage is needed to prepare a seedbed, wait 7 days after application before tillage to allow translocation into underground plant parts.

8.4 Injection and Frill (Woody Brush and Trees)

This product may be used to control woody brush and trees by injection or frill applications. Apply this product using suitable equipment which must penetrate into the living tissue. Apply the equivalent of 1 ml of this product per each 2 to 3 inches of trunk diameter at breast height (DBH). This is best achieved by applying a 50 to 100 percent concentration of this product either to a continuous frill around the tree or as cuts evenly spaced around the tree below all branches. As tree diameter increases in size, better results are achieved by applying diluted material to a continuous frill or more closely spaced cuttings. Avoid application techniques that allow runoff to occur from frilled or cut areas in species that exude sap freely. In species such as this, make the frill or cuts at an oblique angle to produce a ripping effect and use a 100 percent concentration of this product for best results. Application should be made during periods of active growth and should be repeated in 1971. The product will not harm young plants or seedlings.

8.5 Ornamentals and Plant Nurseries, Christmas Trees

Post-directed, Trim and edge

This product may be used to control weeds and brush around ornamental species, plant nurseries, Christmas trees, and other plantings. Apply this product to the soil surface, not to the plant species, to prevent burning desirable native species, and for smaller broad-leaf, from vegetation control requirements. Spot treatments can be made to selectively remove unwanted plants for habitat management and enhancement.

Ornamental plants may be protected from the spray by using the following methods: 1. Covering the plant with a plastic sheet or other material. 2. Applying the product to the soil surface, not to the plant species, to prevent burning desirable native species, and for smaller broad-leaf, from vegetation control requirements. Spot treatments can be made to selectively remove unwanted plants for habitat management and enhancement.

Site preparation

This product may be used as a site preparation treatment prior to planting wildlife food plots. Any wildlife food species may be planted after applying this product, or native species may be allowed to repopulate the area.

Greenhouse Shadehouse

This product may be used to control weeds and brush around ornamental species, plant nurseries, Christmas trees, and other plantings. Apply this product to the soil surface, not to the plant species, to prevent burning desirable native species, and for smaller broad-leaf, from vegetation control requirements. Spot treatments can be made to selectively remove unwanted plants for habitat management and enhancement.

8.6 Parks, Recreational and Residential Areas

This product may be used in parks, recreational and residential areas. It may be applied with any application equipment described in this label. This product may be used to trim and edge around trees, fences, paths, around buildings, sidewalks, and other objects in these areas. This product may be used for spot treatment of unwanted vegetation. This product may be used to eliminate unwanted weeds growing in established shrub beds or ornamental plantings. This product may be used prior to planting an area to ornamentals, flowers, turfgrass (sod or seeds), or prior to laying asphalt or beginning construction projects.

All of the instructions in the "GENERAL NONCROP AREAS AND INDUSTRIAL SITES" section apply to park and recreational areas.

8.7 Railroads

All of the instructions in the "GENERAL NONCROP AREAS AND INDUSTRIAL SITES" section apply to railroads.

Bare ground, Ballast and Shoulders, Crossings, and Spot treatment

This product may be used to maintain bare ground on railroad ballast and shoulders. Repeat applications of this product may be used as weeds emerge, to maintain bare ground. This product may be used to control tall-growing weeds to improve line-of-site at railroad crossings and reduce the need for mowing along rights-of-way. For crossing applications, up to 60 gallons of spray solution per acre may be used. This product may be tank mixed with the following products for control of weeds at crossings and the bare ground project.

ARFENAL	WARFAR
PARQUAT	ALPHALOX
2,4-D	GLYPH
GLYPH	GLYPH
GLYPH	GLYPH
GLYPH	GLYPH
GLYPH	GLYPH
GLYPH	GLYPH

This product may be used to control weeds at crossings and the bare ground project.

Brush control

This product may be used to control brush and trees along rights-of-way. Apply 1 to 10 gallons of product per acre as a broadcast spray, using boom type or broadcast nozzles. Up to 80 gallons of spray solution per acre may be used. Apply a 3 to 2 percent solution of this product when using high volume sprays to wet application. Apply a 5 to 10 percent solution of this product when using low volume directed sprays for spot treatment. This product may be mixed with the following products for control of brush and trees.

ARFENAL	WARFAR
PARQUAT	ALPHALOX
GLYPH	GLYPH

This product may be used to control brush and trees along rights-of-way.

Bermudagrass release

This product may be used to control bermudagrass in many annual and perennial weeds to effect release of bermudagrass. Apply 1 to 10 gallons of product per acre as a broadcast spray, using boom type or broadcast nozzles. Up to 80 gallons of spray solution per acre may be used. Apply a 3 to 2 percent solution of this product when using high volume sprays to wet application. Apply a 5 to 10 percent solution of this product when using low volume directed sprays for spot treatment. This product may be mixed with the following products for control of bermudagrass.

Bahagrass
Blackberry
Bluestem, silver
Broomedge
Dewberry
Dock, curly
Dogfennel

Fescue, tall
Johnsongrass
Poa
Raspberry
Trumpet creeper
Vaseygrass
Vervain, blue

8.8 Roadsides

[illegible]

Actively growing bermudagrass

This product may be used to control or partially control many annual and perennial weeds for effective release of actively growing bermudagrass. Apply 1 to 3 pints of this product in 10 to 25 gallons of spray solution per acre. Use the lower rate when treating annual weeds below 6 inches in height (or runner length). Use the higher rate as weeds increase in size as they approach flower or seedhead formation. These rates will also provide partial control of the following perennial species:

Bahiagrass	Johnsongrass
Bluestem, silver	Trumpet creeper
Fescue, tall	Vaseygrass

This product may be tank mixed with Oust. If tank-mixed, use no more than 1 to 2 pints of this product with 1 to 2 ounces of Oust per acre. Use the lower rates of each product to control annual weeds less than 6 inches in height (or runner length) that are listed in this label and the Oust label. Use the higher rates as annual weeds increase in size and approach the flower or seedhead stages. These rates will also provide partial control of the following perennial weeds:

Bahiagrass	Johnsongrass
Bluestem, silver	Poorjoe
Broomsedge	Trumpet creeper
Dock, curly	Vaseygrass
Dogfennel	Vervain, blue
Fescue, tall	

Use only on well established bermudagrass. Bermudagrass injury may result from the treatment, but regrowth will occur under most conditions. Repeat applications of the tank mix in the same season are not recommended, since severe injury may occur.

Actively growing bahiagrass

For suppression of vegetation growth and seedhead formation in bahiagrass, apply 1 to 3 pints of this product in 10 to 25 gallons of spray solution per acre.

Apply this product to actively growing bahiagrass. Apply 1 to 3 pints of this product in 10 to 25 gallons of spray solution per acre. Apply this product after mowing the bahiagrass. Apply this product to bahiagrass that is 1 to 2 feet tall. Do not apply this product to bahiagrass that is taller than 2 feet.

Do not apply this product to bahiagrass that is taller than 2 feet. Do not apply this product to bahiagrass that is taller than 2 feet. Do not apply this product to bahiagrass that is taller than 2 feet. Do not apply this product to bahiagrass that is taller than 2 feet.

Do not apply this product to bahiagrass that is taller than 2 feet. Do not apply this product to bahiagrass that is taller than 2 feet. Do not apply this product to bahiagrass that is taller than 2 feet. Do not apply this product to bahiagrass that is taller than 2 feet.

9.0 WEEDS CONTROLLED

Apply this product to actively growing weeds. Apply 1 to 3 pints of this product in 10 to 25 gallons of spray solution per acre. Apply this product to weeds that are 1 to 2 feet tall. Do not apply this product to weeds that are taller than 2 feet.

Do not apply this product to weeds that are taller than 2 feet. Do not apply this product to weeds that are taller than 2 feet. Do not apply this product to weeds that are taller than 2 feet. Do not apply this product to weeds that are taller than 2 feet.

Do not apply this product to weeds that are taller than 2 feet. Do not apply this product to weeds that are taller than 2 feet. Do not apply this product to weeds that are taller than 2 feet. Do not apply this product to weeds that are taller than 2 feet.

9.1 Annual Weeds

Apply this product to actively growing annual weeds. Apply 1 to 3 pints of this product in 10 to 25 gallons of spray solution per acre. Apply this product to annual weeds that are 1 to 2 feet tall. Do not apply this product to annual weeds that are taller than 2 feet.

Do not apply this product to annual weeds that are taller than 2 feet. Do not apply this product to annual weeds that are taller than 2 feet. Do not apply this product to annual weeds that are taller than 2 feet. Do not apply this product to annual weeds that are taller than 2 feet.

BEST AVAILABLE COPY

[illegible][illegible]

*Partial control[illegible]

NOT INVENTED OR, AT THE ELECTION OF THIS COMPANY
OR ANY OTHER SELLER, THE REPLACEMENT OF SUCH
QUANTITY OR BE 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 DAM-
AGES.

Upon opening and using this product, buyer and all users
are deemed to have accepted the terms of this LIMIT OF
WARRANTY AND LIABILITY which may not be varied by any
verbal or written agreement. If terms are not acceptable,
return at once unopened.

TMEscort, Hyvar, Krovar, Dust, and Jelar are trademarks of E. I.
duPont de Nemours and Company.

TMCalber and Princep are trademarks of Ciba-Geigy Corporation.

TMGarlon, Spike, Surflan and Tordon are trademarks of E. I. duPont
Products Company.

TMBanvel is a trademark of Sandoz, Inc.

TMRonstar is a trademark of Rhone-Poulenc, Inc.

TMArsenal is a trademark of American Cyanamid Company.

(This page intentionally left blank.)

(This page intentionally left blank.)

(This page intentionally left blank.)

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

EPA Reg. No. 524-476

In case of an emergency involving this product
Call Customer Service (314) 694-4000

MADE IN THE U.S.A.

100% COTTON
100% COTTON
100% COTTON

40

BEST AVAILABLE COPY

ACCEPTED

DEC 7 1975

Under the Federal Insecticide,
Fungicide and Rodenticide Act,
as amended for the pesticide
registered under
EPA Reg. No. 524-475

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

EPA Reg. No. 524-475

In case of an emergency involving this product,
call (800) 451-6944 or (314) 634-4444

MONSANTO COMPANY 1984

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

21196T2 1-53

BEST AVAILABLE COPY