

D-PAK

HERBICIDE BY MONSANTO

For control of annual and perennial weeds in reduced tillage systems in Arkansas, Louisiana and Mississippi.

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

Carefully follow detailed instructions in attached label booklet

Read the entire label before using this product.

Use only according to label instructions

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

REFORMULATION OR REPACKAGING IS PROHIBITED

PRECAUTIONARY STATEMENTS

Hazards to
Humans and Domestic Animals

Keep out of reach of children

CAUTION!

CAUSES EYE IRRITATION

Avoid contact with eyes

Wash thoroughly with soap and water after handling

FIRST AID: IF IN EYES, flush with plenty of water for at least 15 minutes. Get medical attention. Remove material from skin and clothing.

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

Environmental Hazards

Do not apply directly to water or wetland (swamps, bogs, marshes or pastures). Do not contaminate water when disposing of equipment washwaters.

Physical or Chemical Hazards

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

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

Storage and Disposal

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

STORAGE
STORE ABOVE 38°F (15°C) TO KEEP FROM CRYSTALLIZING. Crystals will settle to bottom. If allowed to crystallize, place in a warm room 77°F (25°C) for several days and roll container frequently or recirculate to redissolve before using.

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

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

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

(See label booklet for Complete Directions for Use)

LIMIT OF WARRANTY AND LIABILITY

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

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

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

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

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

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

ACTIVE INGREDIENTS

*Glyphosate, 4-(phosphonomethyl) glycine, in the form of its isopropylamine salt 62.0%
INERT INGREDIENTS 38.0%
100.0%

*Contains 788 grams per litre or 6.42 pounds per U.S. gallon of the active ingredient glyphosate, in the form of its isopropylamine salt. Equivalent to 570 gr./ma per litre or 4.75 pounds per U.S. gallon of the acid, glyphosate.

Product protected by U.S. Pat. Nos. 3,788,758 and 4,406,531. Other patents pending. No license granted under any non-U.S. patent.



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

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887 15-100 02/53

ACCEPTED

Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended for the pesticide
requirements under
EPA Reg. No. 524-333

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

EPA Reg. No. 524-333

Complete Directions for Use

~~1988-1~~

037-15-00004-00

Change to: 1989-1

8-897.15-100.01/53

Read the entire label before using this product.

Use only according to label instructions.

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

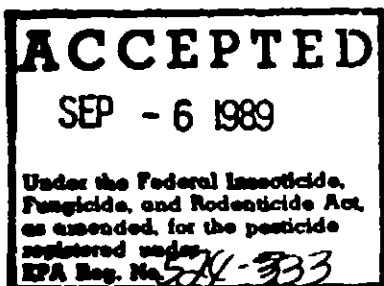
REFORMULATION OR REPACKAGING IS PROHIBITED.

LIMIT OF WARRANTY AND LIABILITY

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

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

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



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

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

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

Keep out of reach of children.

WARNING!

CAUSES EYE IRRITATION.

HARMFUL IF SWALLOWED.

MAY CAUSE SKIN IRRITATION.

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

Wash thoroughly with soap and water after handling.

FIRST AID: IF IN EYES, immediately flush with plenty of water for at least 15 minutes. 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 gastrointestinal tract irritation. Immediately induce by stimulating vomiting. Call a physician.

In case of an emergency involving this product, Call Collect, day or night, (314) 634-4000.

Environmental Hazards

Do not apply directly to water or wetland (swamps, bays, marshes or potholes). Do not contaminate water by disposing of equipment washwaters.

Physical or Chemical Hazards

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

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

ACTIVE INGREDIENT:

Aluminum phosphonate (20% solution)

0-0-0

Keep out of reach of children.

CAUTION!

CAUSES EYE IRRITATION.

Avoid contact with eyes.

Wash thoroughly with soap and water after handling.

FIRST AID: IF IN EYES, flush with plenty of water for at least 15 minutes. Get medical attention. Remove material from skin and clothing.

Do not apply directly to water or wetland (swamps, bays, marshes or potholes). Do not contaminate water by disposing of equipment washwaters.

Aluminum phosphonate, N-(phosphonomethyl)glycine, in the form of its isopropylamine salt.

CHANGE TO:

50.0 %
18.0 %

REPLACE WITH:

~~*Contains 480 grams per litre of 4-phosphoryl-3-nitrophenyl isopropylamine salt of N-(phosphonomethyl)glycine per U.S. gallon. Equivalent to 570 grams per litre or 4.75 pounds per U.S. gallon of the acid, glyphosate.~~

Product is protected by
U.S. Pat. No. 3,799,758 and
U.S. Pat. No. 4,485,531.
(Other patents pending.)

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

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*Contains 768 grams per litre or 6.42 pounds per U.S. gallon of the active ingredient glyphosate in the form of its isopropylamine salt. Equivalent to 570 grams per litre or 4.75 pounds per U.S. gallon of the acid, glyphosate.

CHANGE TO: 1989

DIRECTIONS FOR USE

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

Storage and Disposal

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

DISPOSAL:

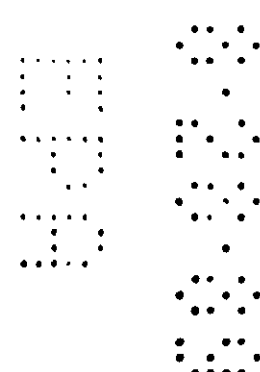
Wastes resulting from the use of this product that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticide disposal or in accordance with applicable Federal, state or local procedures.

Empty container retains water and product residue. Observe all label warnings until container is cleaned, reconditioned or destroyed.

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

STORAGE:

STORE ABOVE 59 F (15 C) TO KEEP FROM CRYSTALLIZING. Crystals will settle to bottom. If allowed to crystallize, place in a warm room 77 F (25 C) for several days and roll container frequently or recirculate to redissolve before using.



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GENERAL INFORMATION

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

CHANGE TO: This product.

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

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

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

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

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

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

Spraying early to control young weeds before dense stands develop or light cultivation to break weed cover will favor effectiveness of suitable methods.

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

Reduced control may result when applications are made to annual or perennial weeds that have been mowed.

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grazed, or cut, and have not been allowed to regrow to the recommended stage for treatment.

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

This product does not promise complete weed control. For subsequent residual weed control, follow a label-approved herbicide program. Read and carefully observe the cautionary statements and all other information appearing on the labels of all herbicides used.

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

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

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

~~Attention: Avoid Drift. Extreme Care Must Be~~

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

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

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

MIXING, ADDITIVES AND APPLICATION INSTRUCTIONS

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

MIXING

This product mixes readily with water. Mix spray solutions of this product as follows: Fill the mixing or spray tank with the required amount of water. Add the

Insert:

Application to wet, saturated soils, or to fields under standing water will result in reduced control.

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INSERT:

This product requires use with an 80 percent active nonionic surfactant. When using this product, mix 4 quarts (1 percent solution) of a nonionic surfactant per 100 gallons of spray solution. Read and carefully observe surfactant cautionary statements and other information appearing on the surfactant label.

Remove hose from tank immediately after filling to avoid splashing back into the carrier source. During mixing and agitation, 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, remove it by-pass and return line at the bottom of the tank and, if needed, use an approved anti-foam or defoaming agent.

TANK MIXTURES

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

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

1. Place a 20 to 35 mesh screen or wetting jacket 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, prepare 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, prepare 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 remainder amount of this product near the end of the filling.

~~7. When organic surfactant is indicated on the label, add it to the spray tank before completing the filling process.~~

8. Add individual formulations to the spray tank as follows: wettable powder, flowable, emulsifiable concentrate, oil control solution, water soluble label 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 over section of tank to minimize foaming. Screen use in nozzle or two streamers 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 nozzle.

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

ADDITIVES

~~SURFACTANTS~~

~~However, surfactants which are labeled for use with herbicides may be used. Do not exceed amount that herbicide label indicates. When using additional surfactant in which label instructions require use of additional surfactant, use 0.5 percent surfactant concentration (based on 100 gallons of water) which will spray 1000 square feet of ground at 100 gpm.~~

→ REPLACE WITH:

7. Add nonionic surfactant to the spray tank before completing the filling process.

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→ DELETE

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27

~~this product is containing less than 50 percent active ingredient. This may partially offset surfactant deficiency symptoms and other herbicide damage on the susceptible plant.~~

AMMONIUM SULFATE

The addition of 2 percent dry ammonium sulfate by weight or 17 pounds per 100 gallons of water may increase the performance of this product on annual 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 plugging. To determine quality, perform a jar test by adding 1/3 cup of ammonium sulfate to 1 gallon of water and agitate for 1 minute. If undissolved sediment is observed, pre-dissolve the 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 this label.

APPLICATION EQUIPMENT AND TECHNIQUES

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

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

GROUND APPLICATION: Apply recommended rates of this product in 3 to 5 gallons of water per acre as a broadcast spray. For optimum spray distribution and coverage, use flat fan or air-induction nozzles. When using flood nozzles, space them no more than 40 inches apart and ensure double overlap of spray pattern. Refer to the manufacturer's recommendations for correct pressure and nozzle height above the target canopy. Avoid pressure and nozzles which produce fine droplets or mist. Use appropriate mowing devices to ensure uniform spray coverage and best results from the herbicide.

AERIAL APPLICATION: Apply the recommended rates of this product in 3 to 5 gallons of water per acre as a broadcast spray. DO NOT APPLY DURING INVERSION CONDITIONS WHEN WINDS ARE GUSTY, OR UNDER ANY OTHER CONDITION WHICH WILL ALLOW DRIFT. DRIFT MAY CAUSE DAMAGE TO ANY VEGETATION CONTACTED TO WHICH TREATMENT WAS NOT INTENDED. TO PREVENT INJURY TO ADJACENT DESIRABLE VEGETATION, APPROPRIATE BUFFER ZONES MUST BE MAINTAINED. Grass stems are most likely to drift; therefore, do not use nozzles or spray configurations which disperse spray in

BROADCAST EQUIPMENT

AERIAL EQUIPMENT

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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 through mixing with water to listed weeds growing in any manner as specified on this label and only when specifically recommended in cropping systems.

A recirculating spray system directs the spray solution only 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 onto weeds while shielding desirable vegetation from the herbicide.

A wiper applicator applies the herbicide solution onto 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 used above desirable vegetation should be adjusted 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 discoloration, stunting, 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

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 ensure adequate contact with weeds.
- Keep nozzle tips and wiper surfaces clean.
- Keep spray patterns aligned and 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 ensure good coverage of weeds.

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- Variation in spray wand design may affect weed control. With water application, the spray material and its emulsions must allow delivery of sufficient quantities of the recommended herbicide solution directly to the weed.
- Care must be taken with all types of sprays to ensure that the abundant material does not burn or oversaturate, causing the herbicide to drip on desirable vegetation.
- Mix only the amount of solution to be used during a one-day period, as residue activity may result from use of leftover solutions. With all equipment, drain and clean sprayer and wear 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 changes). Use the appropriate table below.

Do not operate at nozzle pressure above 28 PSI

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

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 Broadcast Weeds—To SUPPRESS the following weeds, mix in a row of 2 quarts of this product in 20 gallons of water and apply as directed.

→ 2.5 quarts

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Dryden, lamp Willowood
Aspenwood Aspenwood

Perennial Grasses and Annual Broadleaf Weeds—To control the following weeds, mix in a rate of 2 quarts of this product in 20 gallons of water and apply as directed:

Cockspur Pigweed, redroot
Xanthox Amaranthus
stramonium retrofractum
Johnsongrass Sunflower
Sorghum nutans Helianthus annuus

Annual Grasses—To control the following weeds, mix in a rate of 1.25 quarts of this product in 20 gallons of water and apply as directed:

Corn Shattercane
Zea mays Sorghum bicolor

SHIELDED APPLICATIONS

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

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

$$\frac{\text{Band width in inches}}{\text{Row width in inches}} \times \frac{\text{Broadcast VOLUME of solution per acre}}{\text{Band VOLUME of solution per acre}} = \text{Band VOLUME of solution per acre}$$

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.

WIPEP APPLICATIONS

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 the 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. 2.5 quarts

For Better Application—Mix 10 quarts of this product in enough water to prepare 10 gallons of herbicide solution. Apply this solution to a variety of weeds or annual broadleaf weeds listed in the "Wiper Applications" section.

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Mix 4 gallons of this product in enough water to provide 20 gallons of herbicide solution. Apply this solution to annual grasses listed in the "Wiper Applicators" section. 2.5 quarts

Roller speed should be maintained at 40 to 60 RPM. For Wipe or Wiper Application—Mix 4 quarts of this product in 2 gallons of water. Apply this solution to weeds listed in the "Wiper Applicators" section. 2.5 quarts

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

Carex	Rye, common
Zea mays	Secale cereale
Pennisetum, Texas	Shallfuss
Panicum stramonium	Sorghum bicolor

ANNUAL BROADLEAVES

Sicklepod	Starbax, broad
Cassia alabamica	Acanthospermum
Spergularia	Trident
Bidens bipinnata	

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

ANNUAL BROADLEAVES

Beggarweed, Florida	Ragweed, giant
Oenothera	Andros trifida
Portulaca	Sunflower
Oxalis	Hibiscus annuus
Euphorbia	Thistle, milk
capilliflorum	Carduus nutans
Pigweed, redroot	Valerian
Amaranthus retrofractus	Abutilon theophrasti
Ragweed, common	
Andros arvensis	

PERENNIAL GRASSES

Bermudagrass	Stargrass
Cynodon dactylon	Sporobolus airoides
Guineagrass	Vernier
Panicum maximum	Paspalum urvillei
Johnsongrass	
Sorghum telesioide	

PERENNIAL BROADLEAVES

Dogfenn, broad	Nightshade, white
Asclepias tuberosa	Solanum elaeagnifolium
Mullein	Thistle, Canada
Asclepias syriaca	Cirsium arvense

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SPRAYER CLEANUP

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

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

Thoroughly wash aircraft, especially landing gear, after each day of spraying to remove residues of this product accumulated during spraying or 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 specifications MIL-C-32413 may prevent corrosion.

Replace with:

Add clean water to the tank and thoroughly rinse the entire spray system.

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ANNUAL WEEDS

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 cover 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 minimum application rate of 0.5 to 1.0 pounds per acre is required. (See the "Application Rates" section of this label for approved sites.)



DELETE

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 directed.
- 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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WILD SPECIES	MAXIMUM HEIGHT	YIELD PER ACRE**
Field	12"	8 ac.
Sedum sp.		
Barnyardgrass	6"	12 ac.
Echinochloa crus-galli	(0 to 4") (4 to 6")	16 ac. ¹ 24 ac. ¹
Bluegrass, annual		
Poa annua		
Brome, downy		
Bromus tectorum		
Mustard, blue		
Chorispora tenella		
Mustard, tansy		
Descurainia pinnata		
Mustard, tumble		
Sisymbrium altissimum		
Mustard, wild		
Sinapis arvensis		
Spurry, umbrella		
Helioscopus umbellatus		
Barley	12"	
Hordeum vulgare		
Rye		
Saccharum arvense		
London, field		
Centaurea		
Shallot		
Sisymbrium		
Eragrostis pinnatus		
Wheat	12"	
Triticum aestivum		
Morningglory	2"	16 ac.
Ipomoea sp.		
Sicklegod		
Cassia obtusifolia		
Bluegrass, bulbous	6"	
Poa bulbosa		
Chest		
Bromus secalinus		
Chickweed, common		
Cerastium vulgatum		
Corn		
Zea mays		
Groundsel, common		
Senecio vulgaris		
Horsetail/marestail		
Cyperus canadensis		
Labrador, common		
Chenopodium album		
Mustard, blue		
Chorispora tenella		
Mustard, tansy		
Descurainia pinnata		
Mustard, tumble		
Sisymbrium altissimum		
Mustard, wild		
Sinapis arvensis		
Pennycress, field		
Fennel		
Thlaspi arvense		
Pocket, London		
Sisymbrium		
Ryegrass, Italian		
Lolium multiflorum		
Showercourse		
Cassia bursa-pastoris		
Spurry, umbrella		
Helioscopus umbellatus		
Barley	12"	
Hordeum vulgare		
Buttercup		
Ranunculus sp.		
Cocklebur		
Xanthoxylum		
Orchard		
Digitaria sp.		
Quercus		
Vicia cracca		



Barnyardgrass	0 to 4" 10 ac.
Echinochloa crus-galli	
Morningglory	2"
Ipomoea sp.	
Sicklegod	
Cassia obtusifolia	
Bluegrass, annual	6"
Poa annua	
Bluegrass, bulbous	
Poa bulbosa	
Brome, downy	
Bromus tectorum	
Chest	
Bromus secalinus	
Chickweed, common	
Cerastium vulgatum	
Corn	
Zea mays	
Groundsel, common	
Senecio vulgaris	
Horsetail/marestail	
Cyperus canadensis	
Labrador, common	
Chenopodium album	
Mustard, blue	
Chorispora tenella	
Mustard, tansy	
Descurainia pinnata	
Mustard, tumble	
Sisymbrium altissimum	
Mustard, wild	
Sinapis arvensis	
Pennycress, field	
Fennel	
Thlaspi arvense	
Pocket, London	
Sisymbrium	
Ryegrass, Italian	
Lolium multiflorum	
Showercourse	
Cassia bursa-pastoris	
Spurry, umbrella	
Helioscopus umbellatus	
Barley	12"
Hordeum vulgare	
Buttercup	
Ranunculus sp.	
Cocklebur	
Xanthoxylum	
Orchard	
Digitaria sp.	
Quercus	
Vicia cracca	

BEST AVAILABLE COPY

WEED SPECIES	MAXIMUM HEIGHT	RATE PER ACRE**
Cocksfoot Eleusine indica	12"	30-40
Polygonum-ventricosa Conyza bonariensis		
Parley, Florida Richardson scaberrima		
Stalked Canna edulis	3-4 1/2"	
Sporobolus Sida acuta		
Parley, Florida Richardson scaberrima	12"	45

→ CHANGE TO: 30 oz.

→ DELETE

→ CHANGE TO: 5 TO 8"

→ DELETE

For control in no-till systems, use 16 fluid ounces per acre.
***For these rates less than 30 ounces per acre, broadcast at rates up to 30 ounces per acre may be used where heavy weed densities exist.*

→ 30
 → CHANGE TO: this product
 → 30

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 4-ounce of this product per acre if weeds are less than 6 inches tall. If weeds are over 6 inches tall, use 4-6 quarts of this product per acre. If weeds have been mowed, grazed, or cut allow adequate time for new growth to recommended stages prior to treatment. These rates will also provide control of weeds listed in the "Low-Volume Broadcast Applications" section.

WEED SPECIES	
Barnyardgrass	Parley
Momordica charantia	Panicum spp.
Barnier, Florida	Ragwort, common
Echinochloa crusgalli	Andropogon scoparius
Barnier	Ragwort, giant
Barnier spp.	Andropogon pulchellus
Polygonum	Syntherisma, Pennsylvania
Antennaria spp.	Polygonum pennsylvanicum
Parley Florida	Syntherisma, common
Cyperus tenuiflorus	Syntherisma, common
Parley	Syntherisma
Erigeron spp.	Melanthium album
Ragwort	Thalictrum, Florida
Ragwort, common	Salvia herb
Letting, purple	Valeriana
Letting, white	Abutilon theophrasti

*Apply with hand-held equipment only.

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PERENNIAL WEEDS

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

NOTE: If weeds have been mowed or chafed, 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.

BEST AVAILABLE COPY

→ DELETE AS SHOWN

BEST AVAILABLE COPY

~~Apply - Apply 1 quart of this product in 3 to 4 gallons of water per acre. Make application when weeds are 4 to 8 inches or more in height. Allow weeds to grow to a height of 4 to 8 inches or more prior to treatment. Applications should be followed with close watch at least 7 days before treatment, but before and after.~~

→ DELETE AS SHOWN

~~Alfalfa - Apply 1 quart of this product per acre or apply a 1-4-4 percent solution with hand-held equipment to provide control. Apply when most of the plants are in bloom. Repeat applications will be required to maintain such control.~~

2.5
1 percent

~~Barbarea - For suppression in grass seed production areas. For suppression only, apply 1 quart of this product in 10 to 20 gallons of water per acre. Ensure close cover over the seedbed. Apply prior to a full application. Barbarea should have at least 2 inches of growth. Apply prior to treatment. Apply at least 7 to 10 days after application is recommended for best results. Repeat the application after treatment may result in successful control.~~

~~Barbarea - For control, apply 1 quart of this product per acre and, for partial control, apply 1/2 quart per acre. Treat when barbarea is actively growing and seedheads are present. Retreatment may be necessary to maintain control. Allow 7 or more days after application before tillage.~~

3
2

~~Barbarea, field / Albemarle - Apply 4-6 quarts of this product per acre west of the Mississippi River and 3-4 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. 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 frost.~~

2.5 to 3
2 to 2.5

~~Barbarea, field / Albemarle - Apply 1 quart of this product in 10 to 20 gallons of water per acre. Apply to actively growing weeds that have reached a height of 12 inches or more. Allow treatment after emergence and before growth. Do not treat when weed is under drought stress, as good soil moisture is necessary for active growth. Allow 7 or more days after application before tillage.~~

~~Barbarea, Kentucky / Albemarle - Apply 1 quart of this product in 10 to 20 gallons of water per acre when the grasses are actively growing and most plants have reached late-to-early seedhead stage of development. For control, apply 1 to 1.5 quarts of this product in 10 to 20 gallons of water per acre.~~

1.5 5 to 10

~~Apply to actively growing plants when they have reached 4 to 12 inches in height. Allow 7 or more days after application before tillage.~~

→ INSERT:
For best results, apply in late summer or fall.

~~Barbarea - Apply 3 to 4 quarts of this product per acre with broadcast sprayer at a 1 to 1 1/2 percent solution with hand-held equipment. Apply to actively growing weeds that are at least 4 inches high.~~

~~Barbarea, Kentucky - For control, apply 1 quart of this product in 10 to 20 gallons of water per acre. Apply to actively growing weeds that have reached a height of 12 inches or more. Allow treatment after emergence and before growth. Do not treat when weed is under drought stress, as good soil moisture is necessary for active growth. Allow 7 or more days after application before tillage.~~

~~Barbarea, Kentucky / Albemarle - Apply 1 quart of this product per acre. For best results, apply in late summer or fall.~~

BEST AVAILABLE COPY

~~For the best control of weeds, apply 1.5~~
~~quarts of this product per acre.~~

~~Concentrate — Apply 1.5 quarts of this concentrate~~
~~to 10 gallons of water per acre. Apply when weeds are~~
~~in the 7-leaf stage of growth. Following crop harvest or mow-~~
~~ing, 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.~~

~~Doyle, being recommended — Apply 1.5~~
~~quarts of this product per acre. Apply when actively grow-~~
~~ing and when most weeds have reached the late bud to~~
~~flower stage of growth. Following crop harvest or mow-~~
~~ing, 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.~~

~~Fertilizer, fall — Apply 1.5 quarts of this product in 10 to 40~~
~~gallons of water per acre to actively growing plants when~~
~~most have reached late-to-early seedling stage of devel-~~
~~opment.~~

~~Fall applications only — Apply 1-quart of this product in~~
~~3 to 10 gallons of water per acre. Apply to weeds in the~~
~~fall when actively growing and plants have 6 to 12 inches~~
~~of new growth. Allow 3 or more days after application be-~~
~~fore tillage. A sequential application of 1-quart per acre~~
~~of this product will improve long-term control and con-~~
~~sistent weed control throughout the growing season.~~

~~Gonimex — Apply 1.5 quarts of this product per acre~~
~~or use a 1 percent solution with hand-held equipment.~~
~~Apply to actively growing gonimex when most have~~
~~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 — Apply 1.5 quarts of this product per acre.~~
~~In annual cropping systems, apply 1-quart of this product~~
~~per acre. Apply 1-quart of this product 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 no-till 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 late-to-early stage of growth. Allow 7 or~~
~~more days after application before tillage. Do not tank-~~
~~mix with residual herbicides when using the 4-quart per~~
~~acre rate.~~

~~For burn-down of johnsongrass, apply 1-quart per acre in~~
~~3 to 10 gallons of water per acre before the plants reach~~
~~a height of 10-inches. For this use, allow at least 3 days~~
~~after treatment before tillage.~~

~~Spot Treatment (water-soluble concentrate) — Apply~~
~~a 1 percent solution of this product when weeds are~~
~~in the 7-leaf stage of growth. Coverage should be uniform~~
~~and complete.~~

~~Stimulant — Apply 2-to-4 quarts of this product per~~
~~acre. Apply when weeds are in the 7-leaf stage of growth.~~
~~Apply 1-quart of this product in 10 to 40 gallons of water~~
~~per acre. Apply 1-quart of this product in 10 to 40 gallons~~
~~of water per acre. Apply 1-quart of this product in 10 to~~
~~40 gallons of water per acre. Apply 1-quart of this product~~
~~in 10 to 40 gallons of water per acre. Apply 1-quart of this~~
~~product in 10 to 40 gallons of water per acre. Apply 1-~~
~~quart of this product in 10 to 40 gallons of water per~~
~~acre. Apply 1-quart of this product in 10 to 40 gallons~~
~~of water per acre. Apply 1-quart of this product in 10 to~~
~~40 gallons of water per acre. Apply 1-quart of this prod-~~
~~uct in 10 to 40 gallons of water per acre. Apply 1-quart~~
~~of this product in 10 to 40 gallons of water per acre.~~

→ DELETE AS SHOWN

1.5

1

10 ounces

→

REPLACE WITH:
Allow 7 or more days after application
before tillage or renovation. A sequential
application approximately 24 days later of
10 ounces per acre of this product plus
nonionic surfactant will improve long-
term control.

10 to 40 ounces

20 to 40 ounces

20 ounces

1.5 quarts

1.5 to 2 quarts

10 ounces

10 ounces

10 inches

BEST AVAILABLE COPY

Labeling: Apply this product at 1 1/2 to 2 percent solution by hand-held equipment. Apply to actively growing weeds or weeds at early bud stage of growth. For the spray application use for weeds that have reached the early bud stage of growth. Allow 7 or more days after application before tillage.

Milium, common — Apply 2 quarts of this product per acre. Apply when actively growing and most of the milium has reached the late bud to flower stage of growth. Following small grain harvest or mowing, allow milium to regrow to a mature stage prior to treatment. Allow 7 or more days after application before tillage.

Milium, white — For control, apply 2 quarts of this product in 3 to 10 gallons of water per acre. Apply when actively growing and most of the milium has reached the late bud to flower stage of growth. Following small grain harvest or mowing, allow milium to regrow to a mature stage prior to treatment. Allow 7 or more days after application before tillage. Do not treat when frost or snow is present or when ground is frozen. A water-soluble salt mixture is necessary for control.

Milium, purple, yellow — Apply 2 quarts of this product per acre as a broadcast spray, or apply to actively growing weeds or weeds at early bud stage of growth. Following small grain harvest or mowing, allow milium to regrow to a mature stage prior to treatment. Allow 7 or more days after application before tillage. Do not treat when frost or snow is present or when ground is frozen. A water-soluble salt mixture is necessary for control.

Sweet Potato, wild — Apply this product as a broadcast 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.

Phlox — Apply this product at 1 1/2 to 2 percent solution by hand-held equipment. Apply to actively growing weeds or weeds at early bud stage of growth. For the spray application use for weeds that have reached the early bud stage of growth. Allow 7 or more days after application before tillage.

Thistle, Canada — Apply 2 to 3 quarts of this product per acre. Apply to actively growing thistles when most are at or beyond the bud stage of growth. After harvest, mowing or tillage in the late summer or fall, allow at least 4 weeks for reduction 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 of this product in 3 to 10 gallons of water per acre in the late summer or fall after harvest, mowing or tillage. Allow thistle 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.

Spontaneous — Apply 4 to 5 quarts of this product per acre to actively growing weeds or weeds at early bud stage of growth. For the spray application use for weeds that have reached the early bud stage of growth. Allow 7 or more days after application before tillage.

Other weeds listed on this label — Apply 2 to 3 quarts of this product per acre. Apply when actively growing and most have reached early bud or early bud stage of growth. Allow 7 or more days after application before tillage.

2.5

2



INSERT:

or apply a 1 percent solution to control purple nutsedge or a 1.5 percent solution to control yellow nutsedge from hand-held equipment to control

1.5 percent

1.25 to 2

20 ounces

2 to 3

BEST AVAILABLE COPY

CROPPING SYSTEMS

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

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

Except as otherwise specified in a crop section of this label, the combined total of all treatments must not exceed 5 quarts per acre of this product per year.

5

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

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

DELETE.

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

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

REPLACE WITH:

CORN (all)	SORGHUM (milo)
COTTON	SOYBEANS
RICE	SUGARCANE
	WHEAT

*Spot treatments may be applied in these crops.

Spot Treatments (Only those crops with "*" can be spot treated)—Applications in growing crops must be made prior to flooding or other ground and water. Initial use not in soybeans, silage of corn, and seed cleaning on cotton.

INSERT: -- Do not treat rice fields or levees when fields contain flood water.

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

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MINIMUM TILLAGE SYSTEMS **Tank Mixtures** **CORN AND SOYBEANS**

When joined as recommended under the conditions described, these tank mixtures control many common weeds and give prompt control of many annual weeds when one or more are not controlled directly and a cover crop, established soil, or a previous crop remains.

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

CORN

- **ROUNDUP® plus LASSO®** ■
- **ROUNDUP plus LASSO plus ALIFLOX** ■
- **ROUNDUP plus LASSO plus GLAFLOX** ■
- **ROUNDUP plus LASSO plus SIFLOX** ■
- **ROUNDUP plus ALIFLOX plus SIFLOX** ■

SOYBEANS

- **ROUNDUP® plus LASSO®** ■
- **ROUNDUP plus LASSO plus ALIFLOX** ■
- **ROUNDUP plus LASSO plus GLAFLOX** ■
- **ROUNDUP plus LASSO plus SIFLOX** ■

Apply these tank mixtures at 10 to 40 gallons of water per acre after planting or during, starting in such manner that the mixture does not contact 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.

CHANGE "ROUNDUP" to "D-PK"

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INSERT:
D-PK plus GUNNY
D-PK plus SCEPTER

CONTROL OF EMERGED WEEDS

Annual weeds less than 6 inches tall, grasses and broadleaf weeds less than 6 inches tall, and other weeds 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 certain emergence rates in certain crop systems, perennial weeds may not be at the proper stage of growth for control. See the "Control Information" section of this label for the proper stage of growth for perennial weeds.

Use of 2-4-D—2-4-D is a systemic herbicide and will not control weeds, only those weeds growing in the soil and which are absorbed from the soil through the roots and stems. For control of weeds growing in the soil, see the "Weeds Controlled" section of this label.

To obtain the desired stage of growth, it may be necessary to apply 2-4-D to the weeds in the late summer or fall and then follow with a label-approved, burning weed control program or similar.

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

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

REPLACE WITH:

Annual Weeds: Apply to actively growing annual grasses and broadleaf weeds up to 2 inches tall. Use 10 ounces of this product per acre in these tank mixtures if weeds are less than 6 inches tall in the early spring. Use 20 ounces per acre in these mixtures for barnyardgrass and broadleaf signalgrass less than 2 inches tall, and all other grasses less than 6 inches tall. If weeds are over 6 inches tall, apply 30 ounces of this product per acre. For emergent annual weeds controlled, see the "Weeds Controlled" section of this label.

1.25 to 1.5 quarts of D-PK

D-PK

2.5 quarts of D-PK

Change or replacement of the label. For replacement control, follow the instructions under "Control of Personal Effects" portion of the label, and then use a label-approved existing waste-control program with conventional labels.

The following are labeled ranges for the recommended product-use amounts:

PRODUCT	RATES/ARE	
	(GALLONS)	(POUNDS)
Lens	2 to 4	•
Ammonia	1 to 2	•
Ammonia 8000	•	1.25 to 2.0
Ammonia 9000	•	1.1 to 2
Blender 40	1 to 22	•
Blender 8000	•	1.25 to 2.75
Scrubber 40	1 to 22	•
Scrubber 8000	•	1.25 to 2.75
Control 40	0.5 to 1.5	•
Control 8000	•	1 to 4
Lens 40 or Scrubber 40	0.25 to 0.75	•
Lens 80 or Scrubber 80	•	0.5 to 1.50
Lens 1500	•	0.33 to 1

DELETE.

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

* Lens is a registered trademark of American Cyanamid.

** Control 40 and 8000 are trademarks of E. I. du Pont de Nemours and Company.

*** Scrubber is a trademark of the same division of Fort Lauderdale River Control Laboratory.

INSERT:

if all products to be used in tank mixtures with this product.

INSERT: Control

INSERT: TM Scrubber is a trademark of American Cyanamid Company.

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SUGARCANE

When applied as directed for "Crabgrass Control", under the conditions described, this product controls these emerged grasses and perennial weeds listed on the label growing in or around sugarcane or in fields to be planted to sugarcane. This product will also control numerous sugarcane weeds.

NOTE: Where repeat applications are necessary, do not exceed a total of 1.25 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 Application:—Apply this product in 10 to 40 gallons of water per acre on emerged weeds growing in fields to be planted to sugarcane.

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 4-6 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 cutting.

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

For control of volunteer or dormant 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 dormant sugarcane, the plants should have at least 7 new leaves.

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

Do not feed or graze animals sugarcane forage following application.

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 perennial weeds, apply 4 quarts of this product plus 0.5 to 1 quart of nonionic surfactant by ground spray volume in 10 to 20 gallons of water per acre. Ensure complete coverage.

BEST AVAILABLE COPY

INSERT: COTTON

20 to 40

DELETE.

30 quarts

For optimal control of weeds, apply the product at the highest rate 0.5 to 1 percent v/v in water. Apply with treatment at early morning and 12 inches or greater in height. Reduced performance may result if treatment is made during stress.

~~Trade Name
Monsanto's "Foliar"
Defoliant and Fertilizer~~

When applied as recommended under the conditions described, this product controls weeds and grasses and weeds listed on the label prior to the harvest of cotton. For a complete guide to application, use defoliant rates and application rates for cotton harvest.

Timing of Application—Apply this product or three times between or subsequent 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 feed treated cottonseed forage or hay following post-harvest applications.

¹Foliar is a trademark of the late Monsanto Corporation.
²Foliar is a trademark of E. I. du Pont de Nemours and Co.

→ **REPLACE WITH:**

When applied as recommended under the conditions described, this product may be tank-mixed with Idef or Foliar when used for weed control. For application guidelines, precautions and defoliant rates, refer to the Idef and Foliar labels.

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POSTHARVEST APPLICATIONS

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

→ **DELETE.**

→ under conditions of environmental stress

EPA Reg. No. 524-333

1000-2

89745-000-04-66 →

Change to: 1000-1

89745-100-01-51

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

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Change to: 1989

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

