



For broad spectrum control of emerged weeds.

Complete Directions for Use in Aquatic Sites.

EPA Reg. NO. 524-343

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

*RODEO is a registered trademark of Monsanto Company

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Rodeo® herbicide is protected by
U.S. Patent No. 3,799,758 and
U.S. Patent No. 4,405,536.

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

MONSANTO COMPANY 1984



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

Read the entire label.

Use only according to label instructions.

NOT FOR REFORMULATION OR REPACKAGING.

Read "LIMIT OF WARRANTY AND LIABILITY" before
buying or using.

If terms are not acceptable, return at once unopened

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 OR IMPLIED WARRANTY OF FITNESS FOR PARTICULAR PURPOSE OR MERCHANTABILITY IS MADE. This warranty is also subject to the conditions and limitations stated herein.

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

Buyer and all users are responsible for all loss or damage from use or handling which results from conditions beyond the control of this company including but not limited to incompatibility with products other than those set forth in the Directions, application to or contact with desirable vegetation, unusual weather (i.e., weather conditions which are outside the range considered normal at the application site and for the time period when the product is applied with the normal range being determined on the basis of the average range for the prior 40 years computed from the best available information, and ii, weather perils, including but not limited to hurricanes, tornadoes and floods) as well as weather considerations 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 OR CONSEQUENTIAL DAMAGES.

The 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.

ACCEPTED

APR 18 1984

U.S. Dept. of Agr. Insecticide,
Fungicide and Rodenticide Act,
on condition, for the pesticide
registered under
EPA Reg. No. 524-343

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

Keep out of reach of children.

CAUTION!

MAY CAUSE EYE IRRITATION.

Avoid contact with eyes, skin or clothing

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

IF ON SKIN, flush with water. Wash clothing before
reuse

Physical or Chemical Hazards

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 GALVAN-
IZED STEEL OR UNLINED STEEL (EXCEPT STAINLESS
STEEL) CONTAINERS OR SPRAY TANKS. This product
or spray solutions of this product react with such con-
tainers and tanks to produce hydrogen gas which may
form a highly combustible gas mixture. This gas mix-
ture could flash or explode, causing serious personal
injury if ignited by open flame, spark, welders torch,
lighted cigarette or other ignition source

Environmental Hazards

Do not contaminate water by disposal of waste or
cleaning of equipment.

In case of

SPILL or LEAK, soak up and remove to a landfill.

Storage and Disposal

STORE ABOVE 10°F. (-12°C.) TO KEEP FROM
CRYSTALLIZING. Crystals will settle to the bottom. If
allowed to crystallize, place in a warm room 66°F.
(19°C.) for several days to redissolve and mix well
before using.

Avoid contamination of seed, feed and foodstuffs

This product, spray mixture or rinsate, that cannot be
used or chemically reprocessed, should be disposed of
according to applicable federal, state or local pro-
cedures.

Triple-rinse container, then dispose of in a sanitary
landfill, or by incineration if allowed by state and local
authorities. Do not reuse container

Consult federal, state or local disposal authorities for
approved alternative procedures.

ACTIVE INGREDIENT:

*Isopropylamine salt of glyphosate 53.5%

INERT INGREDIENTS: 46.5%

100.0%

Contains 648 grams per litre or 5.4 pounds of the ac-
tive ingredient isopropylamine salt of N-(phosphono-
methyl) glycine per U.S. gallon. Equivalent to 480
grams per litre or 4 pounds per U.S. gallon of the acid,
glyphosate.

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Physical or Chemical Hazards

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lighted cigarette or other ignition source.

Environmental Hazards

Do not contaminate water by disposal of waste or
cleaning of equipment.

In case of:

SPILL OR LEAK, soak up and remove to a landfill.

Storage and Disposal

STORE ABOVE 10°F. (-12°C.) TO KEEP FROM
CRYSTALLIZING. Crystals will settle to the bottom. If
allowed to crystallize, place in a warm room 55°F.
(20°C.) for several days to redissolve and mix well
before using.

Avoid contamination of seed, feed and foodcuffs.

This product, spray mixture or rinsate, that cannot be
used or chemically reprocessed, should be disposed of
according to applicable federal, state or local pro-
cedures.

Triple rinse container, then dispose of in a sanitary
landfill, or by incineration if allowed by state and local
authorities. Do not reuse container.

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approved alternative procedures.

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*Isopropylamine salt of glyphosate 53.5%

INERT INGREDIENTS: 46.5%

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Contains 648 grams per litre or 5.4 pounds of the ac-
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GENERAL INFORMATION

This product, a water soluble liquid, mixes readily
with water and nonionic surfactant to be applied as
a foliage 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 and surfactant 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 the activity of this product and
delay usual effects of control. Visible effects are a
gradual wilting and yellowing of the plant which ad-
vances to complete browning of above ground growth
and deterioration of underground plant parts.

Unless otherwise directed on this label, delay applica-
tion until vegetation has emerged and reached the
stages described for control of such vegetation under
the "Weeds Controlled" section of this label.

Unemerged plants arising from untreated under-
ground 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 ob-
tained 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 weed growth is
heavy or dense.

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

Reduced control may result when applications are
made to any weed or brush species that have been
mowed, grazed, or cut, and have not been allowed to
regrow to the recommended stage for treatment.

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

This product does not provide residual weed control.
For subsequent residual weed control, follow a label-
approved herbicide program. Read and carefully
observe the cautionary statements and all other infor-
mation 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 or other materials that are
not expressly recommended in this label. Mixing this
product with herbicides or other materials not recom-
mended on this label may result in reduced perfor-
mance.

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 quan-
tities 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

plant or crop injury occurring from
drift is greatest when winds are gusty
miles per hour or when other con-
siderable wind velocities will allow spray
When spraying avoid combinations
nozzle type that will result in splash-
(mist) which are likely to drift. AVOID
EXCESSIVE SPEED OR PRESSURE.

NOTE: Use of this product in any m-
tent with this label may result in
animals or crops, or other un-
consequences. When not in use, keep it
prevent spills and contamination.
Clean sprayer and parts immediately
product by thoroughly flushing w-

MIXING AND APPLICATION INSTRUCTIONS

APPLY THESE SPRAY SOLUTIONS
MAINTAINED AND CALIBRATE
CAPABLE OF DELIVERING DESI-
RAY GUN APPLICATIONS SHOULD
DIRECTED TO AVOID SPRAYING DESI-
NOTE: REDUCED RESULTS MAY O-
CONTAINING SOIL IS USED, such
PONDS AND UNLINED DITCHES.

MIXING

This product mixes readily with water
tions of this product as follows: fill the
tank with the required amount of w-
the required amount of this product
for Use" and "Weeds Controlled"
label). Near the end of the filling
required surfactant and mix well. R-
tank immediately after filling to avoid
into the water source. During mixing,
foaming of the spray solution may oc-
minimize foam, avoid the use of mec-
place the filling hose below the sur-
solution, terminate by-pass and re-
bottom of the tank and if needed use
foam or defoaming agent.

Keep by-pass line on or near bot-
minimize foaming. Screen size in
strainers should be no finer than 50
select correct nozzle to avoid sprayin-
best results with conventional gro-
equipment, use flat fan nozzles,
distribution of spray droplets.

THE USE OF A NONIONIC SURFACTANT
FOR THE SITE OF THE DESIRED APP-
QUIRED FOR USE WITH THIS PRODU-
percent surfactant by total spray v-
observe all cautionary statements an-
to appearing on the surfactant lab-

APPLICATION EQUIPMENT AND TECHNIQUE

AERIAL EQUIPMENT

DO NOT APPLY THIS PRODU-
CALIFORNIA.

Use the recommended rates of this
flectant in 3 to 20 gallons of water pr

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cast spray. See the "Weeds Controlled" section of this label for specific rates. Aerial applications of this product may only be made as specifically recommended on this label.

AVOID DRIFT — DO NOT APPLY DURING INVERSION CONDITIONS, WHEN WINDS ARE GUSTY, OR UNDER ANY OTHER CONDITION WHICH WILL ALLOW DRIFT. DRIFT MAY CAUSE DAMAGE TO ANY VEGETATION CONTACTED TO WHICH TREATMENT IS NOT INTENDED TO PREVENT INJURY TO ADJACENT DESIRABLE VEGETATION. APPROPRIATE BUFFER ZONES MUST BE MAINTAINED.

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

Ensure uniform application — To avoid streaked, uneven or over-sprayed application, use appropriate marking devices.

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 LANDING GEAR. LANDING GEAR ARE MOST SUSCEPTIBLE. The maintenance of an organic coating (Paint) which meets aerospace specification MIL-C-38413 may prevent corrosion.

BOOM EQUIPMENT

For control of weed or brush species listed on this label using conventional boom equipment — Use the recommended rates of this product and surfactant in 3 to 20 gallons of water per acre as a broadcast spray. See the "Weeds Controlled" section of this label for specific rates. As density of weeds increases, spray volume should be increased within the recommended range to ensure complete coverage. Carefully select correct nozzle to avoid spraying a fine mist. For best results with ground application equipment, use flat fan nozzles. Check for even distribution of spray droplets.

HAND-HELD and HIGH-VOLUME EQUIPMENT

Use coarse sprays only.

For control of weeds listed on this label using knapsack sprayers or high volume spraying equipment utilizing handguns or other suitable nozzle arrangements — Prepare a 4 to 14 percent solution of this product in water, add surfactant and apply to foliage of vegetation to be controlled. For specific rates of application and instructions for control of various annual and perennial weeds, see the "Weeds Controlled" section of this label.

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

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

Spray solution:

DESIRED VOLUME	AMOUNT OF PRODUCT*			
	4%	1%	1 1/2%	1 1/4%
1 gallon	1 oz.	1 1/2 oz.	1 1/2 oz.	2 oz.
25 gallons	1 1/2 pt.	1 qt.	1 1/2 qt.	1 1/2 qt.
100 gallons	3 qt.	1 gal.	1 1/2 gal.	1 1/2 gal.
2 tablespoons = 1 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 mixed solution and add the correct amount of surfactant.

WEEDS CONTROLLED

ANNUAL WEEDS

Apply to actively growing annual grasses and broadleaf weeds.

Allow at least 3 days after application before disturbing treated vegetation. After this period the weeds may be mowed, killed or burned. See "Directions for Use," "General Information," and "Mixing and Application Instructions" for labeled uses and specific application instructions.

Broadcast Application — Use 1 1/2 oz. of this product per acre plus 1/4 to 1/2 percent surfactant by total spray volume if weeds are less than 6 inches tall. If weeds are greater than 6 inches tall, use 2 1/2 pints of this product per acre plus 1/4 to 1/2 percent surfactant by total spray volume.

Hand-Held High-Volume Application — Use a 4 percent solution of this product in water plus 1/4 to 1/2 percent surfactant by total spray volume and apply to foliage of vegetation to be controlled.

When applied as directed under the conditions described in this label, this product plus emulsifier surfactant WILL CONTROL the following ANNUAL WEEDS.

Barley	Panicum
<i>Hordeum vulgare</i>	<i>Panicum</i> spp.
Bluegrass (annual)	Pennycress (field)
<i>Poa annua</i>	<i>Thlaspi arvense</i>
Brome (downy)	Pigweed, Redroot
<i>Bromus tectorum</i>	<i>Amaranthus</i> spp.
Cocklebur	Pigweed (smooth)
<i>Xanthium pensylvanicum</i>	<i>Amaranthus hybridus</i>
Corn (volunteer)	Ragweed (common)
<i>Zea mays</i>	<i>Ambrosia artemisiifolia</i>
Crabgrass	Ragweed (giant)
<i>Digitaria</i> spp.	<i>Ambrosia trifida</i>
Falsenlar (smallseed)	Rye
<i>Camelina microcarpa</i>	<i>Secale cereale</i>
Fiddleneck	Ryegrass (Italian)*
<i>Amsinckia</i> spp.	<i>Lolium multiflorum</i>
Flaxweed	Sandbur (field)
<i>Erigeron</i> spp.	<i>Scirpus</i> spp.
Foxtail	Shattercane
<i>Setaria</i> spp.	<i>Sorghum bicolor</i>
Kochia	Smartweed (Pennsylvania)
<i>Kochia scoparia</i>	<i>Polygonum</i>
Lambquarters (common)	<i>pensylvanicum</i>
<i>Chenopodium album</i>	Spanishneedles*
Lettuce (prickly)	<i>Biscia bipinnata</i>
<i>Lactuca scariola</i>	Sunflower
	<i>Helianthus annuus</i>

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