

524-534

12/11/2001

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U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (H7505C)
401 "M" St., S.W.
Washington, D.C. 20460

EPA Reg. Number:
524-534

Date of Issuance:
DEC 11 2001

Term of Issuance:
Conditional

Name of Pesticide Product:
MON 44951 Herbicide

NOTICE OF PESTICIDE:
 Registration
 Reregistration

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Monsanto Company
600 13 th Street, N.W. Suite 660
Washington, DC 20005

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA section 3(c)(7)(A) provided that you:

1. Submit/cite all data required for registration/reregistration of your product when the Agency requires all registrants of similar products to submit such data.
2. Add the phrase "EPA Registration No. 524-534" before you release the product for shipment.
3. Submit three (3) copies of your final printed labeling before you release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of this product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Signature of Approving Official:

Date:

12-11-01

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MON 44951

MON 44951 herbicide is a selective herbicide for control of annual and perennial grass and broadleaf weeds in golf courses and sod farms.

Complete Directions For Use

EPA Reg. No. 524-LGU

2001-1

Read the entire label before using this product.

Use only according to label instructions.

Not all products recommended on this label are registered for use in California. Check the registration status of each product in California before using.

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

THIS IS AN END-USE PRODUCT. MONSANTO DOES NOT INTEND AND HAS NOT REGISTERED IT FOR REFORMULATION. SEE INDIVIDUAL CONTAINER LABEL FOR REPACKAGING LIMITATIONS.

ACTIVE INGREDIENT:

Sulfosulfuron,..... 75.0%

OTHER INGREDIENTS: 25.0%

100.0%

This product is protected by U.S. Patent Nos. 5,017,212 and 5,534,482. No license granted under any non U.S. Patent(s).

ACCEPTED
DEC 11 2001
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 524-534

PRECAUTIONARY STATEMENTS Hazards to Humans and Domestic Animals

Keep out of reach of children.

CAUTION!

CAUSES EYE IRRITATION.

Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling

FIRST AID	
IF IN EYES	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. • Call a poison control center or doctor for treatment advice.
<ul style="list-style-type: none"> • Have the product container or label with you when calling a poison control center or physician, or going for treatment. • In case of an emergency involving this product, Call Collect, day or night, (314) 694-4000. • This product is identified as MON 44951 Herbicide, EPA Reg. No. 524-LGU. 	

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

When handlers use closed systems or enclosed cabs in a manner that meets the requirements listed in the 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 inside. Then wash thoroughly and put on clean clothing.

Environmental Hazards

This chemical demonstrates the properties and characteristics associated with chemicals detected in ground water. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination.

This pesticide is highly toxic to non-target plants. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to plants in neighboring areas. Do not contaminate water when disposing of equipment washwaters or rinsate.

The use of any pesticide in a manner that may kill or otherwise harm an endangered species or adversely modify their habitat is a violation of Federal Laws.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any manner inconsistent with its labeling. This product can only be used in accordance with the Directions For Use on this label or in separately published Monsanto Supplemental Labeling.

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. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

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 enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 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
- Shoes plus socks
- Chemical-resistant gloves, such as nitrile rubber, neoprene rubber or polyethylene. For more options, follow the instructions for Category A (dry and water-based formulations) on an EPA chemical resistant category selection chart.

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FOR PRODUCT INFORMATION OR ASSISTANCE IN USING THIS PRODUCT,
CALL TOLL FREE, 1-800-332-3111.

Storage and Disposal

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

STORAGE: Store under cool, dry conditions (below 120°F). Do not store under moist conditions.

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.

See individual container label for disposal information.

APPLICATION EQUIPMENT AND INSTRUCTIONS

Ground Broadcast Equipment

Apply MON 44951 herbicide uniformly with properly calibrated ground equipment in 10 to 50 gallons of water per acre. Select spray volumes that ensure thorough and uniform weed coverage. Use equipment which is capable of continuous agitation. Choose nozzles which provide optimum spray distribution and uniform coverage at the appropriate spray pressure. Avoid streaking, skips, overlaps, and spray drift during applications.

Hand-Held and High-Volume Equipment

Use hand-held spray guns, backpacks, or other similar sprayers to apply this product. Apply to foliage of vegetation to be controlled. For applications made on a spray-to-wet basis, spray coverage should be uniform and complete. Do not spray to the point of runoff. Use coarse sprays only.

Do not apply product through any type of irrigation system.

IMPORTANT: Do not allow this product to contact roots or foliage of desirable vegetation, areas where roots of desirable vegetation may extend, or areas where this product may be washed or moved into contact with roots of desirable vegetation.

Desirable plants may be injured if planted into treated areas.

Do not use on food or feed crops.

Equipment cleaning

Clean application equipment after using this product by thoroughly flushing with water.

Injection Systems

This product may be used in ground injection spray systems. It may be diluted prior to injecting into the spray stream. Do not mix this product with the undiluted concentrate of other products when using injections systems, unless specifically recommended.

ATTENTION

AVOID DRIFT. Care must be used when applying this product to prevent injury to desirable plants and crops. Do not allow the herbicide solution to mist, drift, or splash onto desirable vegetation or soil areas where sensitive crops will be planted since minute quantities of this product can cause severe damage or destruction to plants on which treatment was not intended. The likelihood of injury occurring from the use of this product increases when winds are gusty, as wind velocity increases, when wind direction is constantly changing or when there are other meteorological conditions that favor spray drift. When spraying, avoid combinations of pressure and nozzle type that will result in splatter or fine particles (mist) which are likely to drift. **AVOID APPLYING AT EXCESSIVE SPEED OR PRESSURE.** Drift control agent additives should be used for ground broadcast applications. When a drift control additive is used, read and carefully observe the precautionary statements and all other information appearing on the additive label.

MIXING INSTRUCTIONS

Thoroughly clean equipment prior to mixing spray solution.

Fill the spray tank to about three-fourths of the desired volume. Add the recommended amount of this product. Complete the filling process while maintaining agitation. Use caution to avoid siphoning back into the carrier source. Use approved anti-back-siphoning devices where required by state or local regulations. Add nonionic surfactant near the end of the filling process where required.

Addition of a nonionic surfactant at 0.5 percent by volume (2 quarts per 100 gallons of spray solution) is required for postemergence applications unless tank mixed with Roundup PRO herbicide. Use only nonionic surfactants which contain at least 90 percent active ingredient. **Do not use nonionic surfactants or other additives that alter the pH of the spray solution below pH 5.** When this product is applied in a tank mixture with Roundup PRO herbicide, addition of a surfactant is not necessary.

For tank mixtures, add individual formulations to the spray tank in the following sequence: water, water soluble bags, dry flowables, emulsifiable concentrates, drift control additive, water soluble liquids followed by a nonionic surfactant.

GENERAL INFORMATION

MON 44951 herbicide is a preemergent and postemergent, systemic herbicide for control of many annual and perennial broadleaf and grass weeds on sod farms and in highly managed turf sites where improved bermudagrass present. It is formulated as a water dispersible granule (WDG).

NONCROP SITES

MON 44951 herbicide may be used for general weed control on sod farms and in highly managed bermudagrass turf sites including golf course fairways, golf course roughs, golf course tees, or other bermudagrass areas of a golf course excluding greens. **Do not apply to golf course greens or within 4 feet of these sites.**

BERMUDAGRASS (NON-OVERSEEDED - ACTIVELY GROWING, DORMANT OR AT GREEN-UP)

MON 44951 herbicide may be used for control of *Poa annua* or to control or partially control other annual and perennial weeds in highly managed bermudagrass sites.

Application Information

Ground Broadcast

Apply MON 44951 herbicide at 0.67 to 1.33 ounces per acre. Do not exceed 2.66 ounces of this product per acre per year.

Use the higher recommended rates of this product for control of large established weeds or when weed growth is heavy or dense. Best results are obtained when weeds are in the early stage of growth and are not disturbed by mowing.

Fall applications for *Poa annua* control can begin as early as September 1. Time first application to just before *Poa* germination. Reapply MON 44951 when *Poa annua* reappears but no more frequently than every 30 to 60 days.

Tank Mixtures

Tank mixtures of this product with Roundup Pro herbicide may be used to increase the spectrum of vegetation controlled. When tank mixing, read and carefully observe the label directions, precautionary statements and all information on the label of Roundup Pro herbicide.

Any recommended rate of this product may be tank mixed with 8 fluid ounces of Roundup Pro herbicide. Refer to the Roundup Pro product label for approved application sites. Always apply tank mixtures according to the most restrictive label of the products used.

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BERMUDAGRASS (ACTIVELY GROWING, PRIOR TO OVERSEEDING TO PERENNIAL RYEGRASS)

MON 44951 herbicide may be used for control of *Poa annua* or to control or partially control other annual and perennial weeds in highly managed bermudagrass sites prior to overseeding of perennial ryegrass.

Application Information

Ground Broadcast

Apply MON 44951 herbicide at 0.42 to 1.33 ounces per acre. Do not exceed 2.66 ounces of this product per acre per year.

Use the higher recommended rates of this product for control of large established weeds or when weed growth is heavy or dense. Best results are obtained when weeds are in the early stage of growth and are not disturbed by mowing.

Fall applications for *Poa annua* control can begin as early as September 1. Apply at least 7 days prior to overseeding. Reapply MON 44951 when *Poa annua* reappears but no more frequently than every 30 to 60 days.

DORMANT BERMUDAGRASS (OVERSEEDED TO PERENNIAL RYEGRASS)

MON 44951 herbicide may be used for control of *Poa annua* or to control or partially control other annual and perennial weeds in dormant, highly managed bermudagrass sites overseeded to perennial ryegrass.

Application Information

Ground Broadcast

Apply MON 44951 herbicide at 0.21 to 0.67 ounces per acre. Do not exceed 2.66 ounces of this product per acre per year. Do not apply this product sooner than 4 weeks after seeding of perennial ryegrass.

Use the higher recommended rates of this product for control of large established weeds or when weed growth is heavy or dense. Best results are obtained when weeds are in the early stage of growth and are not disturbed by mowing.

Fall applications for *Poa annua* control can begin as early as September 1. Reapply MON 44951 when *Poa annua* reappears. Follow-up applications should be at a 30 day interval or greater for improved safety to ryegrass.

BERMUDAGRASS (FOR REMOVAL OF OVERSEEDED PERENNIAL RYEGRASS - DORMANT OR ACTIVELY GROWING)

MON 44951 herbicide may be used to remove overseeded perennial ryegrass or to control or partially control other annual and perennial weeds in dormant, highly managed bermudagrass sites at or around the time of bermudagrass greenup or when bermudagrass is actively growing.

Application Information

Ground Broadcast

Apply MON 44951 herbicide at 1 to 1.33 ounces per acre. Do not exceed 2.66 ounces of this product per acre per year.

Use the higher recommended rates of this product for control of large established weeds or when weed growth is heavy or dense. Best results are obtained when weeds are not disturbed by mowing.

Spring applications for perennial ryegrass control should begin up to 4 weeks before ryegrass removal is desired.

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WEEDS CONTROLLED

Barley, volunteer

Hordeum vulgare

Bedstraw, catchweed

Galium aparine

Bluegrass, annual

Poa annua

Bluegrass, roughstalk

Poa trivialis

Bluegrass, bulbous

Poa bulbosa

Buttercup

Ranunculus arvensis

Chamomile, mayweed

Anthemus cotula

Henbit

Lamium amplexicaule

Chickweed, common

Stellaria media

Mustard, tumble

Sisymbrium altissimum

Mustard, wild

Sinapis arvensis

Pennycress, field

Thlaspi arvense

Purple Nutsedge

Cyperus rotundus

Shepherd's-purse

Capsella bursa-pastoris

Yellow Nutsedge

Cyperus esculentus

LIMIT OF WARRANTY AND LIABILITY

Monsanto 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 pamphlet ("Directions") when used in accordance with those Directions under the conditions described therein. NO OTHER EXPRESS WARRANTY OR IMPLIED WARRANTY OF FITNESS FOR PARTICULAR PURPOSE OR MERCHANTABILITY IS MADE. This warranty is also subject to the conditions and limitations stated herein.

Buyer and all users 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.

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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.

Roundup Pro is a registered trademark of Monsanto Technology LLC.

EPA Reg. No. 524-LGU

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

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

Formulated in the United States Using Active Ingredient Made in Japan.