

**MON 37525W  
HERBICIDE BY MONSANTO**

**Complete Directions For Use**

EPA Reg. No. 524-LEA

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**SOLUBLE CONCENTRATE**

**MON 37525W Herbicide is a selective herbicide for the control of listed annual and perennial grasses and broadleaf weeds in winter and spring wheat.**

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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.

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

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**ACTIVE INGREDIENT:**

Sulfosulfuron .....	24.1%
OTHER INGREDIENTS: .....	75.9%
	100.0%

Product is protected by U.S. Patent Nos. 5,017,212 and 5,534,482.

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2000-1

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**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 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.

This Company does not warrant any product reformulated or repackaged from this product except in accordance with this Company's stewardship requirements and with express written permission from this Company.

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.

**CAUTION!**

**HARMFUL IF INHALED.**

Avoid breathing spray mist. Remove contaminated clothing and wash clothing before use.

**ACCEPTED**  
MAR 15 2001  
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 524-526

FIRST AID	
IF INHALED	• Move person to fresh air.

- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.
- Call a poison control center or doctor for further treatment advice.

**HOT LINE NUMBER**

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may call collect (314) 694-4000, day or night, for emergency medical treatment information.

**Personal Protective Equipment (PPE)**

**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.

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

**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 or 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.

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, waterproof gloves and shoes plus socks.

For more product information or assistance in using this product, call toll-free 1-800-332-3111.

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## Storage and Disposal

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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

This product may be applied through either Ground or Aerial (Fixed Wing or Helicopter) equipment. Calibrate spray equipment before use. Thorough coverage is necessary to provide good weed control. Use equipment which is capable of continuous and vigorous tank agitation. When tank is full, the agitation system should be capable of creating a rippling or rolling action on the liquid surface.

Apply MON 37525W herbicide uniformly as a broadcast spray with properly calibrated ground equipment in 5 to 20 gallons of water per acre or 10 to 40 gallons of liquid fertilizer solution per acre. Or apply with aerial equipment in 5 to 15 gallons of water per acre. Select spray volumes that ensure thorough and uniform weed coverage. Choose nozzles which provide optimum spray distribution and coverage at the appropriate spray pressure. Avoid streaking, skips, overlaps, and spray drift during applications.

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

**Important-Equipment Cleaning:** Thoroughly clean application equipment immediately after MON 37525W herbicide use. Prepare a tank cleaning solution which consists of a 1 percent solution of ammonia (one quart of ammonia for every 25 gallons of water). Use sufficient cleaning solution to thoroughly rinse all surfaces and to flush all hoses. Repeat the procedure with the ammonia solution. Complete the cleaning process by rinsing with clean water.

If visible residue is present in the spray tank, a solution consisting of 1 percent ammonia plus 0.25 percent nonionic surfactant (0.25 quarts per 25 gallons of water) is recommended for adequate cleansing.

## SPRAY DRIFT MANAGEMENT

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment-and-weather-related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions. The following drift management requirements must be followed to avoid off-target drift movement from applications to agricultural field crops. These requirements do not apply to forestry applications, public health uses or to applications using dry formulations.

### GROUND SPRAY DRIFT REQUIREMENTS

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. Drift potential increases at wind speeds less than 3 mph or more than 10 mph. However, equipment type, nozzle size, and other factors influence drift potential at any given wind speed. 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. AVOID WINDLESS AND GUSTY WIND CONDITIONS.

### AERIAL SPRAY DRIFT REQUIREMENTS

1. The distance of the outermost nozzles on the boom must not exceed  $\frac{1}{4}$  the length of the wingspan or rotor.
2. Nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees. Where states have more stringent regulations, they should be observed.

### Importance of droplet size

The most effective way to reduce drift potential is to apply large droplets. The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly, or under unfavorable environmental conditions (see the "Wind", "Temperature and Humidity", and "Temperature Inversions" sections of this label).

### Controlling droplet size

- **Volume:** Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with the higher rated flows produce larger droplets.
- **Pressure:** Use the lower spray pressures recommended for the nozzle. Higher pressure reduces droplet size and does not improve canopy penetration. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.
- **Number of Nozzles:** Use the minimum number of nozzles that provide uniform coverage.
- **Nozzle Orientation:** Orienting nozzles so that the spray is released backwards, parallel to the airstream, will produce larger droplets than other orientations. Significant deflection from the horizontal will reduce droplet size and increase drift potential.
- **Nozzle Type:** Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back produce larger droplets than other nozzle types.
- **Boom Length:** For some use patterns, reducing the effective boom length to less than ¼ of the wingspan or rotor length may further reduce drift without reducing swath width.
- **Application Height:** Applications should not be made at a height greater than 10 feet above the top of the largest plants unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces the exposure of the droplets to evaporation and wind.

**Swath Adjustment**

When applications are made with a crosswind, the swath will be displaced downward. Therefore, on the up and downwind edges of the field, the applicator must compensate for this displacement by adjusting the path of the aircraft upwind. Swath adjustment distance should increase, with increasing drift potential (higher wind, smaller droplets, etc.).

**Wind**

Drift potential is lowest between wind speeds of 2 to 10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given speed. Application should be avoided below 2 mph due to variable wind direction and high inversion potential. **NOTE:** Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect drift

**Temperature and Humidity**

When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

**Temperature Inversions**

Applications should not occur during a temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

**Sensitive areas**

The pesticide should only be applied when the potential for drift to adjacent sensitive areas (e.g., residential areas, bodies of water, known habitat for threatened or endangered species, non-target crops) is minimal (e.g., when wind is blowing away from the sensitive areas).

**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 as listed in the "WEEDS CONTROLLED" section. Complete the filling process while maintaining agitation. Remove the hose from the mixing tank immediately after filling to avoid siphoning back into the carrier source. For postemergence applications, add nonionic surfactant as the last ingredient in the tank.

Spray solutions should be applied within 24 hours after mixing.

**Adjuvants:** A nonionic surfactant (NIS) is the only adjuvant required in the spray solution for postemergence applications. Use only nonionic surfactants which are approved by EPA for use on food crops and which contain at least 80 percent active ingredient. Nonionic surfactants should be added at 0.5 percent



by volume (2 quarts per 100 gallons of spray solution). **DO NOT USE NONIONIC SURFACTANTS OR OTHER ADDITIVES THAT ALTER THE pH OF THE SPRAY SOLUTION BELOW pH 5.** Spray solutions of pH 6.0-8.0 are optimum.

Oil based adjuvants or adjuvants containing oils are not recommended when this herbicide is tank mixed with emulsifiable concentrate pesticide formulations.

**Do not use low rates of liquid fertilizer as a substitute for surfactant.**

#### **APPLICATION BY AIR**

When applying MON 37525W herbicide by air in 5 gallons per acre of spray solution, a spray solution pH of 6.0 to 8.0 is optimum. Addition of 0.07% to 0.14% ammonia in final spray solution will increase the pH of the spray solution to within the optimal range. Failure to adjust the pH of the spray solution may result in reduction in weed control.

Fill the spray tank to about three-fourths of the desired volume prior to mixing. With agitation, add MON 37525W herbicide and nonionic surfactant to the spray solution. Then adjust the spray solution pH with the ammonia.

**Caution:** Do not use ammonia with chlorine bleach as dangerous gases will form.

#### **APPLICATION IN FLUID FERTILIZERS**

**Application of this herbicide in liquid fertilizers may result in leaf burn and reduced forage growth.**

This herbicide generally provides most consistent performance when applied with water as the spray carrier and surfactant is added to the spray solution. However, liquid nitrogen fertilizer solutions (28-0-0 or 32-0-0) may be used as a spray carrier in place of all or part of the water when the label recommendations are followed.

**DO NOT USE MON 37525W HERBICIDE IN FERTILIZER SOLUTIONS WITH pH 5 OR LESS.**

#### **FALL APPLICATIONS**

Fall applications of this herbicide in liquid fertilizer solutions may cause rapid leaf burn, resulting in reduced weed control and reduced forage growth.

Fertilizer solution must contain less than 50 percent liquid nitrogen and not exceed 30 pounds of actual nitrogen per acre in the spray solution.

Nonionic surfactants should be added at 0.25 percent by volume to spray solutions containing fluid fertilizer.

**SPRING APPLICATIONS**

Fertilizer solutions containing more than 50 percent liquid nitrogen may result in excessive leaf burn from the fertilizer.

Nonionic surfactants should be added at 0.25 percent by volume to spray solutions containing fluid fertilizer.

**WEEDS CONTROLLED**

**Biological Information**

MON 37525W herbicide is a selective herbicide for the control of many grass and broadleaf weed species in winter and spring wheat. Refer to the "WEEDS CONTROLLED" section for a listing of weeds controlled.

The level of weed control following MON 37525W herbicide application is dependent upon application rate, weed species and size at application time, and growing conditions. For best results, postemergence applications should be made to actively growing weeds at the growth stages defined in this label. Heavy infestations should be treated early before the weeds become too competitive with the crop.

Soon after MON 37525W herbicide is applied, growth of susceptible weeds is inhibited, and susceptible weeds are no longer competitive with the crop. Following growth inhibition, affected plants may appear dark green and stunted, affected leaves will turn yellow and/or red, followed by death of the growing point of the plant. These visible effects of control may not be observed until 1 to 3 weeks after application.

**Weeds controlled in winter wheat:**

WEED SPECIES	Fall Spring		
	Pre	Post	Post
bedstraw, catchweed <i>Galium aparine</i>	S	C	C
bluegrass, bulbous <i>Poa bulbosa</i>	.	.	C
bluegrass, roughstalk <i>Poa tirvialis</i>	.	C	.

brome, downy	C	C	S
<i>Bromus tectorum</i>			
brome, Japanese	C	C	S
<i>Bromus japonicus</i>			
brome, ripgut	.	S	S
<i>Bromus rigidus</i>			
chamomile, mayweed	.	C	C
<i>Anthemis cotula</i>			
cheat	C	C	S
<i>Bromus secalinus</i>			
chess, hairy	C	C	S
<i>Bromus commutatus</i>			
chickweed, common	.	S	C
<i>Stellaria media</i> )			
fiddleneck, tarweed	.	S	S
<i>Amsinckia lycopsoides</i>			
flixweed	S	S	S
<i>Descurainia sophia</i>			
henbit	S	S	.
<i>Lamium amplexicaule</i>			
lady's-thumb	.	.	C
<i>Polygonum persicaria</i>			
mustard, tumble	S	C	C
<i>Sisymbrium altissimum</i>			
mustard, wild	C	C	C
<i>Sinapis arvensis</i>			
oat, wild	.	S	S
<i>Avena fatua</i> - fall germinating			
oat, wild	.	.	S
<i>Avena fatua</i> - spring germinating			
pennycress, field	S	S	S
<i>Thlaspi arvense</i>			
quackgrass	.	.	C
<i>Elytrigia repens</i>			
rescuegrass	.	S	S
<i>Bromus catharticus</i>			
ryegrass, Italian	.	S	S
<i>Lolium multiflorum</i>			
shepherd's-purse	.	.	C
<i>Capsella bursa-pastoris</i>			
tansymustard, pinnate	S	S	S
<i>Descurainia pinnata</i>			
wallflower, bushy	.	C	C
<i>Erysimum repandum</i>			

C = Control, S = Suppression

**Weeds Controlled in Spring Wheat:**

WEED SPECIES	Pre	Post
oat, wild	.	C

<i>Avena fatua</i>		
sunflower, common	C	C
<i>Helianthus annuus</i>		
quackgrass	.	S
<i>Elytrigia repens</i>		

C = Control, S = Suppression

**Winter Wheat**

**Applications in Winter Wheat**

In winter wheat, MON 37525W herbicide is to be applied in a single application, only at the maximum rate of 1.6 fluid ounces of product per acre (20 acres per quart) per cropping season. The application can be made either preemergence or postemergence. Best weed control is obtained when soil moisture is adequate to support vigorous wheat and weed growth.

**Preemergence in Winter Wheat**

Apply MON 37525W herbicide preemergence to winter wheat at 1.6 fluid ounces of product per acre (20 acres per quart) in a single application to control the weeds listed in the "WEEDS CONTROLLED" section of this label. Preemergence applications of MON 37525W herbicide should be applied after drilling wheat, but before wheat or weed emergence. Do not apply preemergence if dry soil conditions will cause delayed wheat and/or weed emergence. Preemergence applications under dry conditions make the product vulnerable to wind erosion until fall moisture is received. Under these conditions, wait until crop and weeds have emerged and are showing good vigor before making a postemergence application.

**Preemergence applications are not recommended for no-till systems or when high crop residue levels (plant material) are present on the soil surface.**

**Postemergence in Winter Wheat**

Apply MON 37525W herbicide at 1.6 fluid ounces of product per acre in a single application when the target weeds shown in the "WEEDS CONTROLLED" section are actively growing. Use 0.5 percent by volume nonionic surfactant concentration (2 quarts per 100 gallons of spray solution) for postemergence applications.

**In the states of KS, OK, and TX, postemergence applications should be made after the wheat is in the 2-leaf stage, but prior to the jointing stage (Feekes' Scale 6).**

**In all other states, postemergence applications should be made after the wheat emerges, but prior to the jointing stage (Feekes' Scale 6).**

### Specific Weed Problems

#### **Brome (Cheat, Downy Brome, Japanese Brome)**

For best control of brome species, apply 1.6 fluid ounces of this product per acre fall postemergence in a single application when brome is in the 2-to 3-leaf stage of growth. Best performance with fall applications of MON 37525W herbicide will occur with good soil moisture and/or rainfall after application.

For spring postemergence suppression of brome species apply 1.6 fluid ounces of this product per acre in a single application. For best control, make applications when brome is less than the 5 tiller stage of growth. Apply MON 37525W herbicide in early spring when the brome is actively growing and has recovered from cold weather, i.e., majority of foliage is green and not red or purple.

#### **Mustards and other winter annual broadleaf weeds**

For fall postemergence control of mustards and other winter annual broadleaf weeds apply 1.6 fluid ounces of product per acre in a single application. For best control, make applications when weeds are less than 2 inches in diameter. Best performance with fall applications of MON 37525W herbicide will occur with good soil moisture and/or rainfall after application.

For spring postemergence control of winter annual broadleaf weeds apply 1.6 fluid ounces of this product per acre. For best control, make applications when weeds are less than 6 inches in diameter.

#### **Tank Mixtures for Winter Wheat**

Before mixing in the spray tank, it is recommended that compatibility be tested by mixing all components in a small container in proportionate quantities. For tank mixtures, add individual formulations to the spray tank in the following sequence: water soluble bags, dry flowables, suspension concentrates, emulsifiable concentrates, drift control additive, water soluble liquids followed by nonionic surfactant.

Refer to the specific product labels and observe all precautions, mixing and application instructions for all products used in tank mixtures.

**Insecticides:** MON 37525W herbicide may be tank mixed or used sequentially with labeled uses of insecticides, except Malathion.

**Tank mixtures of MON 37525W herbicide plus insecticides are not recommended when the wheat crop has significant insect damage, is**

under drought stress, or when growth is influenced by other environmental stresses (such as nutrient deficiency, soil pH, or disease).

**Do not use MON 37525W herbicide plus Malathion, as crop injury may result.**

Do not apply MON 37525W herbicide within 60 days of crop emergence where an organophosphate insecticide has been applied as an in-furrow treatment, as crop injury may result.

**Herbicides:** For control of additional broadleaf weeds, MON 37525W herbicide may be applied as a spring postemergence application in tank mixture with the following herbicides. Refer to tank mix herbicide label for application rate and restrictions related to soil texture, soil organic matter, and wheat growth stage. Always add nonionic surfactant at 0.5 percent by volume. Tank mixtures with metribuzin may be applied only in the spring.

**Tank mixtures with herbicides formulated as amines may decrease the effectiveness of MON 37525W herbicide.**

Apply 1.6 fluid ounces per acre of MON 37525W herbicide with:  
PRODUCT

- 
- 2,4-D amine<sup>1</sup>
  - 2,4-D LV ester
  - Bronate™ (bromoxynil + MCPA)
  - Buctril™ (bromoxynil)
  - Buctril 4EC
  - MCPA amine<sup>1</sup>
  - MCPA LV ester
  - Sencor™ 4 (metribuzin)<sup>2</sup>
  - Sencor™ DF (metribuzin)<sup>2</sup>
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<sup>1</sup> Tank mixtures with this herbicide may result in reduced control of brome species.

<sup>2</sup> Different formulations of the same active ingredient may be used (**spring applications only**).

### Spring Wheat

In spring wheat, MON 37525W herbicide should be applied only postemergence in a single application, at the maximum rate of 1.6 fluid ounces of product per acre per cropping season. Best weed control is obtained when soil moisture is adequate to support vigorous wheat and weed growth.

### Postemergence in Spring Wheat

Apply MON 37525W herbicide at 1.6 fluid ounces of product per acre in a single application when the target weeds shown in the "WEEDS CONTROLLED" section are actively growing. Use 0.5 percent by volume nonionic surfactant concentration (2 quarts per 100 gallons of spray solution) for postemergence applications.

**Postemergence applications should be made after the wheat emerges, but prior to the jointing stage (Feekes' Scale 6).**

### **Specific Weed Problems**

#### **Wild Oat**

For wild oat control in spring wheat, MON 37525W herbicide should be applied postemergence after the wheat and wild oat have emerged. For control of wild oat, apply 1.6 fluid ounces per acre of this product when wild oat are in the 1 to 4 true leaf stage. For postemergence applications, always add a nonionic surfactant at 0.5 percent by volume.

#### **Tank Mixtures for Spring Wheat**

Before mixing in the spray tank, it is recommended that compatibility be tested by mixing all components in a small container in proportionate quantities. For tank mixtures, add individual formulations to the spray tank in the following sequence: water soluble bags, dry flowables, suspension concentrates, emulsifiable concentrates, drift control additive, water soluble liquids followed by nonionic surfactant.

**Refer to the specific product labels and observe all precautions, mixing and application instructions for all products used in tank mixtures.**

For control of additional grasses and broadleaf weeds, MON 37525W herbicide may be applied as a postemergence tank mixture application with the following herbicides. Refer to tank mix herbicide label for application rate and restrictions related to soil texture, soil organic matter, and wheat growth stage. Always add nonionic surfactant at 0.5 percent by volume.

**Tank mixtures with herbicides formulated as amines may decrease the effectiveness of MON 37525W herbicide.**

Apply 1.6 fluid ounces per acre of MON 37525W herbicide in a single application with:

PRODUCT

- 2,4-D LV ester
- Bronate (bromoxynil + MCPA)
- Buctril (bromoxynil)
- Buctril 4EC
- Cheyenne™
- Curtail™ (clopyralid + 2,4-D)<sup>1</sup>
- Dakota™ (fenoxaprop + MCPA)
- MCPA amine<sup>1</sup>
- MCPA LV ester
- Stinger™ (clopyralid)
- Tiller™ (fenoxaprop + 2,4-D + MCPA)

<sup>1</sup> Tank mixtures with this herbicide may result in reduced control of grass species.

**ROTATIONAL CROP INFORMATION**

**CROP ROTATION RESTRICTIONS**

DO NOT PLANT TO ANY CROPS OTHER THAN WINTER OR SPRING WHEAT for a period of one year following MON 37525W herbicide application.

**CROP ROTATION ADVISORY**

One year after the application of MON 37525W herbicide, it is recommended that before rotating to crops other than winter or spring wheat, a field bioassay be completed to determine whether injury to the intended rotational crop(s) will occur. To conduct an effective field bioassay, grow strips of the crop you intend to grow the following season in fields previously treated with MON 37525W herbicide. Crop response to the bioassay will determine if the crop(s) grown in the test strips can be grown safely in areas previously treated with MON 37525W herbicide.

**PREHARVEST INTERVAL (PHI) INFORMATION**

Wheat forage may be grazed immediately after application of MON 37525W herbicide. Do not harvest wheat for hay within 30 days of MON 37525W herbicide application and do not harvest wheat for grain or straw within 55 days of MON 37525W herbicide application.

**WEED RESISTANCE**

Biotypes of certain plants, particularly broadleaf weeds, have demonstrated resistance to sulfonyleurea herbicides or other herbicides with the same mode of action. Biotypes are naturally occurring individuals of a species that are identical in appearance but have slightly different genetic composition.



Weeds showing resistance to the sulfonyleurea mode of action also can be expected to be resistant to MON 37525W herbicide. To prevent or delay the development of broadleaf weed resistance, it is recommended that MON 37525W herbicide be used in tank mixes and/or in sequential applications with a registered herbicide having a different mode of action.

To prevent or delay any development of grassy weed resistance, particularly bromus species, it is recommended that in wheat-fallow-wheat production systems, a nonselective herbicide or tillage be used to control weeds to keep them from flowering and setting seed during fallow periods. It is not recommended that MON 37525W herbicide be used during fallow periods for weed control.

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Bronate and Bucril are trademarks of Rhone-Poulenc Ag Company. Cheyenne, Dakota, and Tiller are trademarks of the AgrEvo USA Company.

Curtail and Stinger are trademarks of the Dow AgroSciences. Sencor is a trademark of the Bayer Corporation.

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

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©2000 MONSANTO COMPANY  
ST. LOUIS, MISSOURI 63167 USA

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

# MON 37525NC

**MON 37525NC herbicide is a selective herbicide for control of annual and perennial grass and broadleaf weeds in noncrop areas.**

## Complete Directions For Use

EPA Reg. No. 524-LEA

2000-1

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..... 24.1%

INERT INGREDIENTS: ..... 75.9%

100.0%

Contains 300 grams per liter or 2.5 pounds per U.S. gallon of active ingredient sulfosulfuron.

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).

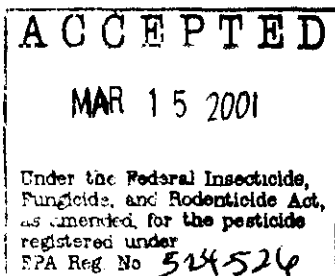
### PRECAUTIONARY STATEMENTS Hazards to Humans and Domestic Animals

Keep out of reach of children.

## CAUTION!

HARMFUL IF INHALED

Avoid breathing spray mist. Remove contaminated clothing and wash clothing before use.



<b>FIRST AID</b>	
<b>IF INHALED</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>HOT LINE NUMBER</b>	
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may call collect (314) 694-4000, day or night, for emergency medical treatment information.</p>	

IN CASE OF AN EMERGENCY INVOLVING THIS PRODUCT, CALL COLLECT, DAY OR NIGHT,  
(314) 694-4000.

**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.

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 37525NC™ SC herbicide uniformly with properly calibrated ground equipment in 10 to 40 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**

Hand-held spray guns, backpacks, or other similar sprayers may be used 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. 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.

For tank mixtures, add individual formulations to the spray tank in the following sequence: water, water soluble bags, dry flowables, suspension concentrates, emulsifiable concentrates, drift control additive, water soluble liquids followed by a nonionic surfactant. Tank mixtures of this product with Roundup Pro<sup>®</sup> herbicide do not require addition of surfactant.

### **GENERAL INFORMATION**

MON 37525NC herbicide is a preemergent and postemergent, systemic herbicide for control of many annual and perennial broadleaf and grass weeds on noncrop sites including unimproved bermudagrass and bahiagrass. It is formulated as a suspension concentrate.

#### **NONCROP SITES**

MON 37525NC herbicide may be used for general weed control on noncrop sites including roadsides, utility rights-of-way, airports, fallow areas, ditch banks, dry ditches, dry canals, fencerows, industrial sites, lumberyards, manufacturing sites, petroleum tank farms and pumping installations, railroads, storage areas, utility substations, warehouse areas, and similar industrial and noncrop sites.

#### **BERMUDAGRASS AND BAHIAGRASS**

MON 37525NC herbicide may be used to control or partially control many annual and perennial weeds for effective release of bermudagrass or bahiagrass on roadsides and other labeled noncrop sites.

#### **Application Information**

Apply MON 37525NC herbicide at 1.8 to 3.2 fluid ounces per acre. Do not exceed 3.2 fluid 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 or other factors for 12 days prior to, or 12 days after application.

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 80 percent active ingredient. When this product is applied in a tank mixture with Roundup Pro herbicide, addition of a surfactant is not necessary.

**Tank Mixtures**

Tank mixtures of this product 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 labels of all products used.

Any recommended rate of this product may be tank mixed with the following products. Refer to these product labels for approved noncrop sites and application rates. Always apply tank mixtures according to the most restrictive label of the products used. Products recommended as tank mixes with MON 37525NC herbicide for bermudagrass or bahiagrass release are restricted to those specified in the "RELEASE OF BERMUDAGRASS OR BAHAGRASS" section.

- |            |              |
|------------|--------------|
| BANVEL™    | PLATEAU™     |
| CAMPAIGN®  | ROUNDUP PRO® |
| DIURON     | TELAR™       |
| ESCORT™    | TRANSLINE™   |
| GARLON™ 3A | VANQUISH™    |
| KARMEX™ DF | 2,4-D        |
| MSMA       |              |
| OUST™      |              |

**NOTE:** Tank mixtures with broadleaf herbicides formulated as amines (including 2,4-D and others) may decrease the effectiveness of MON 37525NC herbicide.

**RELEASE OF BERMUDAGRASS OR BAHAGRASS**

**Dormant Applications**

This product may be used to control or partially control many winter annual weeds for effective release of dormant bermudagrass or bahiagrass when treated after grass is dormant and prior to spring green-up.

Apply any labeled rate of this product alone or in a tank mixture with 8 to 64 fluid ounces of Roundup Pro herbicide or with 16 to 64 fluid ounces of Campaign herbicide per acre. In dormant bermudagrass only, up to 1 ounce per acre of Escort may be added to MON 37525NC herbicide or tank mixtures of MON 37525NC herbicide and Roundup Pro herbicide to increase the spectrum of broadleaf weeds controlled. Addition of Escort may delay green-up of bermudagrass. DO NOT apply tank mixtures of this product with Escort in highly maintained turfgrass areas.

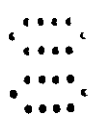
In the state of Texas, applications of MON 37525NC herbicide applied before September 30 will not delay green-up of bermudagrass the following spring, however some temporary discoloration of desirable spring germinating wildflowers may occur.

**Actively Growing Bermudagrass Release**

This product may be used to control or partially control johnsongrass and other weeds for effective release of actively growing bermudagrass. Use only on well-established bermudagrass. Apply any labeled rate of this product alone or in a tank mixture with 8 to 32 fluid ounces of Roundup Pro herbicide per acre. Use the higher rates of each product to control perennial weeds or annual weeds greater than 6 inches in height.

Up to 0.5 ounce per acre of Oust, up to 1 ounce per acre of Escort, or up to 0.5 ounce per acre of Telar may be added to MON 37525NC herbicide or tank mixtures of MON 37525NC herbicide and Roundup Pro herbicide. DO NOT apply tank mixtures of this product with Oust, Escort or Telar in highly maintained turfgrass areas.

**Actively Growing Bahiagrass Release**



This product may be used to control or partially control johnsongrass and other weeds for effective release of actively growing bahiagrass. Use only on well established bahiagrass. Apply any labeled rate of this product alone or in a tank mixture with 4 to 12 ounces of Roundup Pro herbicide per acre. Use the higher rates of each product to control perennial weeds or annual weeds greater than 6 inches in height.

**IMPORTANT:** Established bermudagrass and bahiagrass are tolerant to MON 37525NC herbicide applications. Tank mixtures of other products with MON 37525NC herbicide may increase grass injury. Where bermudagrass or bahiagrass are desirable ground cover use tank mixtures only when some temporary injury or discoloration can be tolerated.

**WEEDS CONTROLLED**

**Barley, volunteer**

*Hordeum vulgare*

**Bedstraw, catchweed**

*Galium aparine*

**Bluegrass, roughstalk**

*Poa trivialis*

**Bluegrass, bulbous**

*Poa bulbosa*

**Brome, downy**

*Bromus tectorum*

**Brome, riggut**

*Bromus rigidus*

**Buttercup**

*Ranunculus arvensis*

**Chamomile, mayweed**

*Anthemus cotula*

**Cheat**

*Bromus secalinus*

**Chess, hairy**

*Bromus commutatus*

**Chickweed, common**

*Stellaria media*

**Horseweed**

*Conyza canadiensis*

**Fiddleneck, tarweed**

*Amsinckia lycopsoides*

**Flixweed**

*Descurainia sophia*

**Johnsongrass**

*Sorghum halepense*

**Ladysthumb**

*Polygonum persicaria*

**Mustard, tumble**

*Sisymbrium altissimum*

**Mustard, wild**

*Sinapis arvensis*

**Pennycress, field**

*Thlaspi arvense*

**Purple Nutsedge**

*Cyperus rotundus*

**Quackgrass**

*Elytrigia repens*

**Ragweed, common**

- Ambrosia artemisiifolia*
- Shepherd's-purse**  
*Capsella bursa-pastoris*
- Sunflower, common**  
*Helianthus annuus*
- Tansymustard, pinnate**  
*Descurainia pinnata*
- Vetch, sand**  
*Vicia acutifolia*
- 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.

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Vanquish is a trademark of Novartis Crop Protection.

Plateau is a trademark of American Cyanamid Company.  
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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.

