

Reg # 524-483

PM-25

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**RESTRICTED USE PESTICIDE**

due to oncogenicity. For retail sale to and use only by Certified Applicators or persons under their direct supervision and only for those uses covered by the Certified Applicator's certification.

**MON 8435  
HERBICIDE  
BY MONSANTO**

**ACCEPTED**

JAN 15 1980

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act,  
as amended, for the pesticide  
registered under  
EPA Reg. No. 524-483

MON 8435 is an emulsifiable herbicide for weed control in Field Corn and Silage Corn.

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

**Complete Directions for Use**

EPA Reg. No. 524-XXX

1994-1

Read each of these sections of this label for essential product performance information.

PRECAUTIONARY STATEMENTS

GENERAL INFORMATION

USE RESTRICTIONS

MIXING, SPRAYING, AND  
HANDLING INSTRUCTIONS

APPLICATION INFORMATION

CULTIVATION INFORMATION

WEED CONTROL WITH MON 8435

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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.

REFORMULATION 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 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, 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.

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#### PRECAUTIONARY STATEMENTS

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Hazards to Humans and Domestic Animals...

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Keep out of reach of children.

**WARNING! AVISO!**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail).

**CAUSES SUBSTANTIAL BUT TEMPORARY EYE INJURY.  
HARMFUL IF SWALLOWED OR ABSORBED THROUGH SKIN.  
MAY CAUSE ALLERGIC SKIN REACTION.**

Avoid contact with skin, eyes, or 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. Get medical attention.

**IF ON SKIN**, immediately flush with plenty of water while removing contaminated clothing. As soon as soap is available, wash skin thoroughly with soap and water. Wash clothing before reuse. Sensitized persons should avoid further contact and reuse of contaminated clothing. Get medical attention.

**IF SWALLOWED**, induce vomiting immediately by giving two glasses of water and sticking finger down throat. Get medical attention. **NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.**

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**Personal Protective Equipment**

Applicators and other handlers (other than mixers and loaders) must wear: long-sleeved shirt and long pants, waterproof gloves, shoes plus socks and protective eyewear.

Mixers and loaders must wear: long-sleeved shirt and long pants, waterproof gloves, chemical resistant footwear plus socks and protective eyewear.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this products concentrate. Do not reuse them. 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, enclosed cabs, or aircraft 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:**

User 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.

Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

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

**Environmental Hazards**

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

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 ground water is shallow, may result in ground water contamination.

Acetochlor has properties that may result in surface water contamination via dissolved runoff and runoff erosion. Practices should be followed to minimize the potential for dissolved runoff and/or runoff erosion.

**ACTIVE INGREDIENT:**

*Acetochlor . . . . .	81.158
INERT INGREDIENTS . . . . .	18.858
	100.008

\*Contains 899 grams/litre or 7.5 pounds/gallon of 2-chloro-N-ethoxymethyl-N-(2-ethyl-6-methylphenyl)acetamide.

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in any manner inconsistent with its labeling. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide 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 apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours. Exception: if the product is soil-injected,

or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

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, are: coveralls, waterproof gloves, shoes plus socks and protective eyewear.

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For more product information, 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.

**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.

(See the individual container label for disposal information.)

#### GENERAL INFORMATION

MON 8435 herbicide is recommended for control of yellow nutsedge and the annual grasses and broadleaf weeds listed in the "WEEDS CONTROLLED" section of this label. This product will not control emerged seedlings. This product may be applied either as a surface application before or after planting or shallowly incorporated prior to planting to blend the herbicide treatment into the upper 1 to 2 inches of soil. Except for minimum or conservation tillage systems, the seedbed should be fine, firm and free of clods and trash.

Read and carefully observe precautionary statements and all other information appearing on the labeling of all products used in mixtures and sequential treatments.

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#### USE RESTRICTIONS

This chemical demonstrates the properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the groundwater is shallow, may result in groundwater contamination. Do not apply to the following soils if ground water depth is 30 feet or less: sands with less than 3% organic matter; loamy sands with less than 2% organic matter; or sandy loams with less than 1% organic matter.

This product may not be mixed or loaded within 50 feet of any wells (including abandoned wells and drainage wells), sink holes, intermittent streams and rivers, and natural or impounded lakes and reservoirs. This setback does not apply to properly capped or plugged abandoned wells and does not apply to impervious pad or properly diked mixing/loading areas.

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Operations that involve mixing, loading, rinsing, or washing of this product into or from pesticide handling or application equipment or containers within 50 feet of any well are prohibited unless conducted on an impervious pad constructed to withstand the weight of the heaviest load that may be positioned on or moved across the pad. Such a pad shall be designed and maintained to contain any product spills or equipment leaks, container or equipment rinse or washwater, and rainwater that may fall on pad. Surface water shall not be allowed to either flow over or from the pad, which means the pad must be self contained. The pad shall be sloped to facilitate material removal. An unroofed pad shall be of sufficient capacity to contain a minimum of 110% of the capacity of the largest pesticide container or application equipment on the pad. A pad that is covered by a roof of sufficient size to completely exclude precipitation from contact with the pad shall have a minimum containment capacity of 100% of the capacity of the largest pesticide container or application equipment on the pad. Containment capacities as described above shall be maintained at all times. The above specified minimum containment capacities do not apply to vehicles when delivering pesticide shipments to the mixing/loading site. States may have in effect additional requirements regarding wellhead setbacks and operational containment.

Do not flood irrigate to apply or incorporate this product.

Product must be used in a manner which will prevent back siphoning into wells, spills or improper disposal of excess pesticide, spray mixtures or rinsates.

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

Disposal of excess pesticide, spray mixtures or rinsate should be according to label use instructions or according to the State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA regional office.

Do not apply under conditions which favor runoff or wind erosion of soil containing this product to non-target areas. To prevent off-site movement due to runoff or wind erosion:

Avoid treating powdery dry or light sandy soils when conditions are favorable for wind erosion. Under these conditions, the soil surface should first be settled by rainfall or irrigation.

Do not apply to impervious substrates such as paved or highly compacted surfaces or frozen or snow covered soils.

Do not use tailwater from the first flood or furrow irrigation of treated fields to treat non-target crops unless at least 1/2 inch of rainfall has occurred between application and the first irrigation.

Do not apply this product using aerial application equipment.

Do not apply when wind conditions favor drift to non-target sites. To minimize spray drift to non-target areas:

Use low pressure application equipment capable of producing a large droplet spray. Do not use nozzles that produce a fine droplet spray. Minimize drift by using sufficient spray volume to ensure adequate coverage with large droplet size sprays.

Keep ground driven spray boom as low as possible above the target surface.

Make application when the wind velocity favors on-target product deposition (approximately 3-10 mph). Do not apply when wind velocity exceeds 15 mph. Avoid application when gusts approach 15 mph.

Low humidity and high temperatures increase the likelihood of spray drift to sensitive areas. Avoid spraying during conditions of low humidity and/or high temperatures. Do not apply during inversion conditions.

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

Flush sprayer with clean water after use.

Do not rotate to crops other than soybeans corn, milo (sorghum), wheat, or tobacco.

#### SOIL TEXTURE

This product is to be applied to only medium and fine textured soils with more than 1.5 percent organic matter. Applicators should evaluate soil conditions carefully to assure that they choose the correct label rate.

The recommended use rates of this product and the other herbicides labeled for use in tank mixtures with this product vary with soil texture. Unless soil texture is specifically named, rate tables throughout this label refer to only three soil texture groups: coarse, medium and fine. The following is a complete listing of soil textures included in each of these three soil texture groups:

SOIL TEXTURE GROUP	SOIL TEXTURE
COARSE:	sand, loamy sand, sandy loam
MEDIUM:	loam, silt loam, silt, sandy clay loam
FINE:	silty clay loam, clay loam, sandy clay, silty clay, clay

Refer to the above table to determine the corresponding soil texture group for the soil to be treated.

#### MIXING, SPRAYING AND HANDLING INSTRUCTIONS

#### NOTE

The use of a mechanical transfer system is required to be used by all mixer/loaders and/or applicators who treat 300 acres or more annually with pesticides containing acetochlor as an active ingredient.

Direct contact or exposure to this product or spray mixtures of this product should be minimized. The following instructions for transfer, mixing, cleaning or repairing equipment should be followed in order to minimize this exposure. Review the protective clothing requirements as listed in the PRECAUTIONARY STATEMENTS section of this label (front panel) and do not use this product until you have the necessary protective clothing.

#### 2.5 Gallon Containers

Open pouring from these containers can result in exposure from splashing or spilling. Special care in lifting and pouring are strongly recommended.

#### Bulk Containers

Open pouring from these containers can result in exposure from splashing or spilling and is not recommended. This product should be transferred from these containers to the mix or spraying tank using pumps or transfer probes. The probe or pump should not be removed from the container or disconnected until the container is emptied and rinsed. Use the pump or probe system to rinse the empty container and transfer the rinsate directly to the mix or spray tank.

#### Equipment Cleaning & Repair

Cleaning and repair of transfer systems and application equipment is a source of exposure to this product. Care should be taken to minimize exposure during cleaning and repair of transfer systems and application equipment. Whenever possible, these systems or equipment should be rinsed before being cleaned or repaired.

When repairs must be made during transfer or application, the equipment should be shutdown, and special care taken to avoid contact with the pesticide.

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Always predetermine the compatibility of this product or labeled tank mixtures of this product with water carrier or sprayable fluid fertilizer carrier by mixing small proportional quantities in advance. See the "STANDARD SPRAYABLE FLUID FERTILIZER COMPATIBILITY TEST" section in this label to determine the compatibility of this product and the labeled tank mixtures recommended for use with sprayable fluid fertilizer carrier.

Mix this product or labeled tank mixture of this product with the appropriate carrier as follows:

1. Place a 20 to 35 mesh screen or wetting basket over filling port.
2. Through the screen, fill the sprayer tank one-half full with the appropriate carrier.



3. If a compatibility agent is necessary to improve mixing or to prevent the formation of undesirable and unsprayable gels or precipitates, while agitating add it to the carrier already in the tank. Use only compatibility agents, cleared by FDA for this use. Read and follow all directions for use, cautionary statements and all other information appearing on the selected compatibility agent label. Check for adequate agitation.
4. If a wettable powder or dry flowable formulation is used, make a slurry with water and add it slowly through the screen into the tank. Continue agitation.
5. If a flowable formulation is used, add slowly through screen into the tank. Mixing and compatibility may be improved when flowable is pre-mixed one part flowable with one part water and added to the tank in diluted form.
6. Add this product slowly through the screen into the tank. Mixing and compatibility may be improved when this product is prediluted with two parts of water and added to the tank in diluted form.

Complete filling the sprayer tank with carrier. If Roundup® or Gramoxone™ Extra is used, add the required amount near the end of the filling process. Remove hose from tank immediately after filling to avoid siphoning back into the carrier source.

Maintain good agitation at all times until the contents of the tank are sprayed.

NOTE: If spray mixture is allowed to settle at any time thorough agitation is required to resuspend the mixture before spraying is resumed.

Keep by-pass line on or near bottom of tank to minimize foaming. Screen size in nozzle or line strainers should be no finer than 50 mesh. Carefully select proper nozzle to avoid spraying a fine mist. Check for even distribution of spray droplets. To reduce loss of the chemical due to drift of a fine mist, apply at nozzle pressures below 40 psi.

®Roundup is a registered product of Monsanto Company.

™Gramoxone is a trademark of a Zeneca Group Company.

STANDARD SPRAYABLE  
FLUID FERTILIZER  
COMPATIBILITY TEST

Herbicides may not always mix evenly throughout a sprayable fluid fertilizer or the components may separate too quickly to make their combined use of practical value. This may be due to certain characteristics of the different fluid fertilizers. A simple test using small quantities of the components is suggested to provide compatibility potential.

The test follows:

**A. Materials Required For A Compatibility Test**

1. Two one-quart jars with lid or stopper (marked "with" and "without").
2. TEAspoons (for a more exacting test, a five to ten milliliter (ml.) pipette or graduated cylinder is desirable).
3. Sprayable fluid fertilizer to be tested.
4. The herbicide chemicals to be mixed.
5. A compatibility agent (the purpose of the adjuvant is to help keep the fertilizer and crop protection chemical in suspension, if this assistance is needed.)

**B. Procedure**

1. Add one pint of the sprayable fluid fertilizer that will be used or other herbicide carrier to each jar marked "with" and "without".

Add One Pint Liquid Fertilizer  
To Two Quart Jars.

WITH

WITHOUT

2. To the jar marked "with", add 1/4 TEAspoon or 1.2 milliliters of a suitable compatibility agent; shake gently for five to ten seconds to mix. (1/4 Teaspoon in one pint is the equivalent of two pints per 100 gallons of liquid fertilizer.)

To Jar Marked "With"  
Add Compatibility Agent  
And Shake to Mix.

WITH

WITHOUT

3. To each jar add the appropriate amount of herbicide(s). If more than one is used, add them separately with the wetttable powders or dry flowables added first, flowables second and liquid last. Shake gently five to ten seconds after each addition.

Add Herbicide(s) To Both Jars  
And Shake to Mix.

WITH

WITHOUT

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Amount to Be  
Added Per Pint Of  
Sprayable Fluid Fertilizer  
(Assuming Volume is 25 gal/A)

HERBICIDE	RATE/A	Level TEAspoons
Wetttable	1 lb.	= 1.5
Powders	2 lb.	= 3
or	3 lb.	= 4.5
Dry Flowables	4 lb.	= 6
	5 lb.	= 7.5

HERBICIDE	RATE/A	Level TEAspoons	Milliliters
Emulsifiable	1 pint	= 0.5	or 2.4
Concentrates or	1 quart	= 1	or 4.7
Flowables or	2 quarts	= 2	or 9.5
Liquids or	3 quarts	= 3	or 14.2
Solutions	1 gallon	= 4	or 19.0
	5 quarts	= 5	or 23.8

This compatibility test is designed for 25 gallons of spray per acre with the maximum labeled rate of herbicide. For changes in spray volume or herbicide rate, make appropriate changes in the ingredients of the test. Regardless of spray volume, the amount of compatibility agent should be equal to two or three pints (two pints = 1/4 TEAspoon or 1.2 milliliters, three pints = 3/8 TEAspoon or 1.8 milliliters per pint of sprayable fluid fertilizer) per 100 gallons of liquid fertilizer.

**C. Observations and Decisions**

1. If the herbicide(s) and the sprayable fluid fertilizer are compatible.
2. If a compatibility agent is necessary.

Five minutes after the final addition and mixing, observe both jars for the formation of large flakes, sludge, gels or other precipitates. Observe if the herbicide(s) cannot be physically mixed with the liquid fertilizer but remains as small oily particles in the solution.

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If incompatibility in any form described above occurs in the jar "with" the compatibility agent added, the liquid fertilizer and the herbicide(s) should not be used together in the same spray tank.

If incompatibility as described above occurs in the jar "without" the adjuvant but not in the jar "with" adjuvant, the use of a compatibility adjuvant is recommended.

Both jars should be allowed to stand and be observed periodically for one-half hour. If the separate layers of liquid fertilizer and additives can be resuspended by shaking, commercial application is possible. An emulsifiable concentrate normally will go to the top after standing; wettable powders will either settle to the bottom of the tank or jar, or float to the top, depending upon the density of the fertilizers.

If the herbicide(s) is compatible with fluid fertilizer in the foregoing test without having to use a compatibility agent, fluid fertilizer may be used for the premixing. If it is not compatible without the compatibility agent, the herbicide(s) should be premixed with water before adding to the spray tank.

#### APPLICATION INFORMATION

#### APPLICATION SYSTEMS

**Ground Broadcast Treatment**--Apply this product and the labeled tank mixtures in 10 or more gallons of solution per acre using broadcast boom equipment. The carrier may be either water or sprayable fluid fertilizer as specified for the crop to be treated in the "DIRECTIONS FOR USE" section of this label. Do not apply during periods of gusty winds, when winds are in excess of 15 mph or when other conditions favoring drift exist.

**Band Treatment**--Apply a broadcast equivalent rate and volume per acre. To determine these:

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

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

**Application with dry bulk fertilizer**--The herbicide/fertilizer impregnation process must be done only at commercial fertilizer or chemical dealerships properly equipped for this procedure.

Dry bulk fertilizer may be impregnated with this product. This product must be applied with 200 to 450 pounds of dry bulk fertilizer per acre and shallowly incorporated within 14 days prior to planting. The correct amount of herbicide must be applied per acre in the blend as recommended in this label for the crop, weed and soil type treated. Refer to the table for broadcast rate per acre in the appropriate crop section of this label to determine the recommended rate per acre for the herbicide treatment to be applied.

The following table provides a reference to determine the amount of LIQUID herbicide to be mixed per ton of dry bulk fertilizer for a range of herbicide recommendations for fertilizer rates per acre:

		RECOMMENDED PINTS LIQUID HERBICIDE/ACRE		
Fertilizer Rate (Lb/Acre)	Acres Covered (Per Ton)	1.75 (Pints of Herbicide/Ton Dry Bulk Fertilizer)	2	3.2
200	10	17.5	20	32
250	8	14	16	25.6
300	6.7	11.7	13.4	21.4
350	5.7	10	11.4	18.2
400	5	8.8	10	16
450	4.5	7.9	8.9	14.4

To determine the amount of herbicide needed for rates not included in the preceding table, use the following formula:

Recommended Herbicide Rate

$$\frac{\text{(Pint) Acre X 2000}}{\text{Pounds Fertilizer/Acre}} = \frac{\text{Pints of herbicide}}{\text{per ton of dry bulk fertilizer}}$$

Mix and blend the dry fertilizer and herbicide mixture in a closed rotary-drum type mixture allowing sufficient time to ensure uniform coverage. Use at least one ton of dry fertilizer per mixing operation. Inject the herbicide into the drum over a minimum of a 2-minute period and allow at least 2 additional minutes mixing time to ensure uniformity. The nozzle used to spray the herbicide treatment must be placed inside the mixer to provide uniform spray coverage of the tumbling fertilizer.

If the dry fertilizer used has inadequate adsorptive capacity, use a higher adsorptive material such as Agsorb™, NP-79™ or Microcel™ E, to provide a free-flowing mixture. The adsorptive material and dry fertilizer should be thoroughly mixed prior to adding liquid herbicide. Follow the guidelines for adding quantities of nonherbicidal adsorptive material.

147 23

™Agsorb is a trademark of Oil Dri Corporation.

™Microcel is a trademark of Manville Products Corporation.

™Nº-79 is a trademark of Eagle Picher Industries.

The following table provides a partial list of dry fertilizers which may be impregnated with this product.

Fertilizer	MON 8435
Ammonium sulfate (21-0-0)	Yes
Ammonium phosphate-sulfate (16-20-0)	Yes
Diammonium phosphate (18-46-0)	Yes
Potassium chloride (0-0-60)	Yes
Potassium sulfate (0-0-52)	Yes
Single super-phosphate (0-20-0)	Yes
Treble super-phosphate (0-46-0)	Yes
*Urea (46-0-0)	Yes

\*Some ureas may be phytotoxic when applied on corn. Use only ureas known to be safe to corn.

NOTE: DO NOT impregnate this product or tank mixtures of this product with other herbicides on fertilizers containing ammonium nitrate, potassium nitrate or sodium nitrate.

Spread the herbicide-dry fertilizer mixture uniformly with a properly calibrated applicator. Fertilizers impregnated with this product or tank mixtures of this product with other herbicides must be spread at half-rate and overlapped 100 percent to obtain full rate and uniform distribution. Non-uniform spreading of the fertilizer-herbicide mixture may result in unsatisfactory weed control or crop injury.

## APPLICATION TIMING AND METHODS

NOTE: Only one treatment of this product may be applied to a labeled crop.

**Preemergence Surface Application**--This product and all labeled tank mixtures may be applied to the soil surface after planting and prior to either crop or weed emergence. Apply within 5 days of last preplant tillage. If weeds emerge after treatment, or if treatment is applied more than 5 days after last preplant tillage, rotary hoe or shallowly cultivate immediately to improve performance. Precipitation or overhead sprinkler irrigation is required after application to move the herbicide treatment into the weed germination zone. The amount of precipitation or overhead sprinkler irrigation required depends on existing soil mixture, soil type and percent organic matter content, but 1/4 to 3/4 inches is normally adequate. Performance is improved when moisture is received within 7 days after application and prior to weed emergence. High intensity or excessive rainfall or excessive irrigation after application may reduce control.

**Preplant Incorporation**--This product and many of the labeled tank mixtures may be mixed into the soil using shallow incorporation equipment any time within 14 days prior to planting. Apply the recommended treatment rate to the soil surface as a broadcast application. Either existing soil moisture or subsequent precipitation or irrigation is required to bring incorporated herbicide treatments into contact with germinating weed seedlings. If weeds emerge after treatment, rotary hoe or shallowly cultivate immediately to improve performance.

**1-Pass Incorporation (Surface Blend™):** Shallowly incorporate (Surface Blend) the treatment into the upper 1 to 2 inches of the soil. Equipment should be operated at manufacturer's designed speed for incorporation to ensure adequate mixing and distribution of the herbicide treatment in the soil. Equipment design including any drag attachments must be adequate to avoid soil ridging which may result in streaked or reduced weed control. Soil conditions, including moisture content and crop residue levels, must be suitable to allow thorough and uniform mixing with the equipment used for 1-pass incorporation.

Contact Monsanto Company for additional information regarding recommended equipment and methods for Surface Blend Application.

**2-Pass Incorporation:** When 2-pass incorporation is used, shallowly incorporate the herbicide treatment into the upper 1 to 2 inches of the soil with equipment set to work the soil NO DEEPER THAN 4 INCHES. The second pass must be made at an angle to and no deeper than the first pass to ensure proper distribution of the herbicide treatment in the soil.

**Cultivation Information**--Delay cultivation after application for as long as possible unless weeds or grasses emerge. Shallowly cultivate or rotary hoe immediately if weeds or grasses emerge. If cultivation is necessary because of soil crusting or compaction, set equipment shallow and minimize lateral soil movement to avoid dilution or displacement of the herbicide treatment. Only after weeds emerge in the treated band, set cultivator to throw soil into the row covering the band.

™Surface Blend is a trademark of Monsanto Company.

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**WEEDS CONTROLLED**

When applied as directed under conditions described, this product and tank mixtures of this product will control or reduce competition from the weeds listed. Refer to the crop on which treatment is intended to determine the rates and tank mixtures recommended.

NOTE: C = Control      R = Reduced Competition

**ANNUAL GRASSES**

	MON 8435	MON 8435 plus Battalion®
Barnyardgrass	C	C
Crabgrass	C	C
Cupgrass, woolly <sup>1</sup>	C	C
Foxtail, giant, green, robust purple, robust white, yellow	C	C
Goosegrass	C	C
Johnsongrass, seedling	R	R
Millet, proso <sup>2</sup>	R	R
Oat, wild	R	R
Panicum, browntop, fall	C	C
Panicum, Texas	R	R
Rice, red	C	C
Sandbur, Grassbur	R	R
Shattercane, wildcane <sup>2</sup>	R	R
Signalgrass, broadleaf	C	C
Sprangletop, red	C	C
Wheat, volunteer	R	R
Witchgrass	C	C

<sup>1</sup> Use 2.8 to 3.2 pints per acre applied alone or in tank-mix combinations.

<sup>2</sup> Use 2.8 to 3.2 pints per acre to reduce competition from this weed.



ANNUAL BROADLEAVES

	MON 8435	MON 8435 plus Battalion®
Carpetweed	C	C
Cocklebur	o	C
Galinsoga	C	C
Jimsonweed	R	C
Kochia	R	C
Lambsquarters	C	C
Morningglory: tall pitted, ivyleaf, entireleaf smallflower	o	R
Mustard	R	C
Nightshade, black hairy	C	C
Pigweed, Carelessweed	C	C
Purslane	C	C
Ragweed, common	C	C
Ragweed, giant <sup>1</sup>	o	C
Smartweed	R	C
Sunflower, common	o	C
Velvetleaf, Buttonweed	R	C
Waterhemp, tall	C	C

SEDGE

Nutsedge, yellow <sup>2</sup>	C	C
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<sup>1</sup>A tank mixture of atrazine 4L (1.0 to 1.5 quarts/acre) is required for the control of this weed.

<sup>2</sup>When using MON 8435 alone, use 2.3 to 3.2 pints/acre and preplant incorporate for control.

Tank mixtures of this product and broadleaf herbicides may be combined with applications of Roundup® herbicide or Gramoxone Extra for control of many emerged weeds prior to corn emergence. Refer to the Roundup or Gramoxone Extra label for a list of emerged weeds controlled by tank mixtures with these products.

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FIELD AND SILAGE CORN

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MON 8435

Apply this product in water or sprayable fluid fertilizer solution for control of yellow nutsedge and the annual grasses and broadleaf weeds listed in the "WEEDS CONTROLLED" section of this label.

APPROVED APPLICATION SYSTEMS

Ground--Broadcast boom; banded

Dry Bulk Fertilizer Impregnation

Reference: The "APPLICATION SYSTEMS" section of this label provides detailed information on the proper application of this product using the system selected.

APPROVED APPLICATION METHODS

**Preplant Incorporated**--Apply this product within 14 days prior to planting and shallowly incorporate or Surface Blend into the upper 1 to 2 inches of soil. Irrigation within 10 days following planting may improve weed control.

**Preemergence Surface**--Apply this product after planting, before crop and weed emergence and within 5 days after last preplant tillage operation.

Reference: The "APPLICATION TIMING AND METHODS" section of this label provides detailed information and procedures for the application timing and method selected.

**RECOMMENDED RATES:** Refer to the following tables for the recommended broadcast treatment rates for this product. Applications which are not consistent with recommendations in this label may result in unsatisfactory weed control or crop injury.

Application Rates

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BROADCAST RATE PER ACRE (PINTS) \*\*

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SOIL TEXTURE GROUP*	Less than 3% organic matter	3% or more organic matter***
Coarse	DO NOT USE	1.75
Medium	1.75 to 2.00	1.75 to 2.00
Fine	1.75 to 2.00	2.00 to 2.50

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\*Refer to the "SOIL TEXTURE" section of this label to determine the corresponding texture group for the soil to be treated.

\*\*Use the higher rate in the recommended range in areas of heavy weed infestation.

\*\*\*On soils with 6 to 10% organic matter use 2.3 to 3.2 pints/acre.  
On soils with more than 10% organic matter use 3.2 pints/acre.

\*\*\*\*Refer to the "USE RESTRICTIONS" section of this label for restrictions.

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MON 8435 plus BATTALION®  
(TANK MIXTURE)

Apply this tank mixture in water or sprayable fluid fertilizer solutions for control of yellow nutsedge and the annual grasses and broadleaf weeds listed in the "WEEDS CONTROLLED" section of this label.

APPROVED APPLICATION SYSTEMS

Ground--Broadcast boom; banded

Dry Bulk Fertilizer Impregnation

Reference: The "APPLICATION SYSTEMS" section of this label provides detailed information on the proper application of this tank mixture using the system selected.

APPROVED APPLICATION METHODS

**Preplant Incorporated**--Apply this tank mixture within 14 days prior to planting and shallowly incorporate or Surface Blend into the upper 1 to 2 inches of soil.

**Preemergence Surface**--Apply this tank mixture after planting, before crop and weed emergence and within 5 days after last preplant tillage operation.

Reference: The "APPLICATION TIMING AND METHODS" section of this label provides detailed information and procedures for the application timing and method selected.

**RECOMMENDED RATES:** Refer to the following tables for the recommended broadcast treatment rates for this tank mixture. Applications which are not consistent with recommendations in this label may result in unsatisfactory weed control or crop injury.

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Application Rates

BROADCAST RATE PER ACRE (PINTS) **				
		Less than 3% organic matter	3% or more organic matter***	
SOIL TEXTURAL GROUP*	MON 8435 (PINTS)	+ BATTALION® (OUNCES)	MON 8435 (PINTS)	+ BATTALION® (OUNCES)
Coarse		DO NOT USE	1.75	8
Medium	1.75 to 2.00	8	1.75 to 2.00	8
Fine	1.75 to 2.00	8	2.00 to 2.50	8

\*Refer to the "SOIL TEXTURE" section of this label to determine the corresponding texture group for the soil to be treated.

\*\*Use the higher rate in the recommended range in areas of heavy weed infestation.

\*\*\*On soils with 6 to 10% organic matter use 2.3 to 3.2 pints/acre. On soils with more than 10% organic matter use 3.2 pints/acre.

\*\*\*\*Refer to the "USE RESTRICTIONS" section of this label for restrictions.

APPENDIX

List of common and scientific names of annual grasses and broadleaf weeds.

ANNUAL GRASSES

Barnyardgrass

*Echinochloa crus-galli*

Crabgrass

*Digitaria ischaemum*

*Digitaria sanguinalis*

Cupgrass, woolly

*Eriochloa villosa*

Foxtail, giant

*Setaria faberi*

Foxtail, green, robust

purple, robust white

*Setaria viridis*

Foxtail, yellow  
*Setaria lutescens*

Goosegrass  
*Eleusine indica*

Johnsongrass, seedling  
*Sorghum halepense*

Millet, proso  
*Panicum miliaceum*

Panicum, browntop  
*Panicum fasciculatum*

Panicum, fall  
*Panicum dichotomiflorum*

Panicum, Texas  
*Panicum texanum*

)
   
 Rice, red  
*Oryza sativa*

Sandbur, Grassbur  
*Cenchrus incertus*

Shattercane, wildcane  
*Sorghum bicolor*

)
   
 Signalgrass, broadleaf  
*Brachiaria platyphylla*

Sprangletop, red  
*Leptochloa filiformis*

Witchgrass  
*Panicum capillare*

ANNUAL BROADLEAVES

Beggarweed, Florida  
*Desmodium tortuosum*

Carpetweed  
*Mollugo verticillata*

Cocklebur  
*Xanthium strumarium*

Coffeeweed  
*Hemp sesbania*  
*Sebania exaltata*

Copperleaf, hophornbeam  
*Acalypha spp.*

Galinsoga  
*Galinsoga* spp.

Jimsonweed  
*Datura stramonium*

Kochia  
*Kochia scoparia*

Lambsquarters  
*Chenopodium album*

Morningglory:

Tall

*Ipomea purpurea*

Pitted

*Ipomea lacunosa*

Ivyleaf

*Ipomea hederacea*

Entireleaf

*Ipomea hederacea*

var. *intergriuscula*

Smallflower

*Jacquemontia tamnifolia*

Mustard  
*Brassica* spp.

Nightshade, black  
*Solanum nigrum*

Nightshade, hairy  
*Solanum sarrachoides*

Pigweed, Carelessweed  
*Amaranthus* spp.

Purslane  
*Portulaca oleracea*

Pusley, Florida  
*Richardia scabra*

Ragweed, common  
*Ambrosia artemisiifolia*

Ragweed, giant  
*Ambrosia trifida*

Sicklepod  
*Cassia obtusifolia*

Sida, prickly; Teaweed  
*Sida spinosa*

Smartweed  
*Polygonum pennsylvanicum*

*Polygonum pensicaria*

Starbur, bristly

*Acanthospermum hispidum*

Sunflower, common

*Helianthus annuus*

Velvetleaf, Buttonweed

*Abutilon theophrasti*

Waterhemp

*Amaranthus tuberculatos*

SEDGE

Nutsedge, yellow

*Cyperus esculentus*

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