

524-487

11/23/2009

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

11-23-09

OFFICE OF  
PREVENTION, PESTICIDES  
AND  
TOXIC SUBSTANCES

David Gustafson  
Monsanto Company  
1300 I Street NW  
Suite 450 East  
Washington, DC 20005

Subject: EPA Reg. 524-487 / Harness 20G Herbicide Label Amendment

Dear Mr. Gustafson:

The labeling is acceptable provided you make the following changes:

- 1) Throughout the label delete "General" from "General Information". Throughout the label delete "recommended" from "recommended rates", "recommended ranges", etc.
- 2) Update the Storage and Disposal section to comply with the Label Review manual. "Do not contaminate water, food, or feed by storage and disposal." must be placed directly under the heading Storage and Disposal, and text below heading Storage and Disposal must be deleted.
- 3) Add "exists" after "washables" on page 2.
- 4) Replace "On the following soil types, do not apply this product within 150 feet... observe the 150 foot setback" with "On the following soil types, do not apply this product within 150 feet of any well where the depth to groundwater 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 percent organic matter." Revise the diagram to comply as well.

A stamped copy of the label is enclosed for your records. You must submit one copy of the final printed label 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. Your release for shipment of the product constitutes acceptance of these conditions. If you have any questions please call Erik Kraft at 703-308-9358 or email at [Kraft.Erik@epa.gov](mailto:Kraft.Erik@epa.gov).

Sincerely,

A handwritten signature in black ink, appearing to read "Jim Tompkins", written over a circular stamp.

Jim Tompkins  
Product Manager 25  
Herbicide Branch  
Registration Division (7505P)

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**HARNESS® 20G**  
Granular Herbicide By Monsanto

**Harness 20G is a granular herbicide for weed control in Field Corn, Production Seed Corn, Silage Corn, Sweet Corn and Popcorn.**

**In case of emergency involving this product, or for user safety information on this product, call 1-800-4-A-MON-SANTO. Collect, day or night, (314) 694-4000.**

**Complete Directions for Use**

Harness® is a registered trademark of Monsanto Technology LLC.

EPA Reg. 524-487

**ACCEPTED**  
**COMMENTS**  
In EPA Letter Dated:  
11-23-09  
Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.  
524-487

2008

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.

**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. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, 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.

To the extent consistent with applicable law, 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 to the extent consistent with applicable law, 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.

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.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, 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. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, 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!**

**CAUSES MODERATE EYE IRRITATION.**

Avoid contact with eyes or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling.

<b>FIRST AID</b>	
<b>If in eyes</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
	<ul style="list-style-type: none"> <li>• Have the product container or label with you when calling a poison control center or doctor, or going for treatment.</li> <li>• In case of an emergency involving this product, Call Collect, day or night, <b>314-694-4000</b>.</li> <li>• This product is identified as <b>Harness 20G Herbicide, EPA Registration No. 524-487</b>.</li> </ul>

**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, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural herbicides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

<p><b>User Safety Recommendations:</b></p> <p>Users should:</p> <ul style="list-style-type: none"> <li>• Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.</li> <li>• Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.</li> <li>• 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.</li> </ul>
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In case of 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, 2-chloro-N-ethoxymethyl-N-(2-ethyl-6-methylphenyl)acetamide.....	20.0%
OTHER INGREDIENTS:.....	<u>80.0%</u>
	100.0%

U.S. Patent No. 5,225,570. Other patents pending. No license is granted under any non-U.S. patent(s).

**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 requirement specific to your State or Tribe, consult the agency responsible for pesticide regulation. This product can only be used in accordance with the Directions for Use on this label or in separately published Monsanto Supplemental Labeling.

**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. 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, is: coveralls, chemical resistant gloves made of any waterproof material, and shoes plus socks.

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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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Proper pesticide storage and disposal are essential to protect against exposure to people and the environment due to leaks and spills, excess product or waste, and vandalism. Do not allow this product to contaminate water, foodstuffs, feed or seed by storage or disposal.

**PESTICIDE STORAGE:** Store pesticides away from food, pet food, feed, seed, fertilizers, and veterinary supplies. Keep container closed to prevent spills and contamination.

**PESTICIDE DISPOSAL:** To avoid wastes, use all material in this container, by application in accordance with label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program. Such programs are often run by state or local governments or by industry. All disposal must be in accordance with applicable federal, state and local regulations and procedures.

**CONTAINER HANDLING AND DISPOSAL:** Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment. Then offer for recycling if available or dispose of empty bag in a sanitary landfill or by incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

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**GENERAL INFORMATION**

Harness® 20G 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 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. On the following soil types, do not apply this product within 150 feet of a drinking water well where the depth to ground water is 30 feet or less: sands with less than 3 percent organic matter; loamy sands with less than 2 percent organic matter; or sandy loams with less than 1 percent organic matter. However, where such wells are sealed with an impermeable casing to a minimum of 30 feet below the water table, application within 150 feet of the drinking water well may occur. If in any doubt about the casing of the drinking water well or the depth to ground water, observe the 150 foot setback. See the figure for additional clarification.

**Restriction does not apply for areas more than 150 feet from a drinking water well.**

The new acetochlor soil restriction is as follows:  
 On the following soil types, **do not apply** this product within 150 feet of a drinking water well where the depth to ground water is 30 feet or less:

- sands with less than 3 percent organic matter;
- loamy sands with less than 2 percent organic matter; or
- sandy loams with less than 1 percent organic matter.

However, where such wells are sealed with an impermeable casing to a minimum of 30 feet below the water table, application within 150 feet of the drinking water well may occur.

drinking water well

150 foot setback

land surface

impermeable casing

if in any doubt about the casing of the drinking water well or the depth to ground water, observe the 150 foot setback.

Restriction does not apply if ground water is more than 30 feet below land surface.

water table

Restriction does not apply if impermeable casing extends more than 30 feet below water table.

well screen

This product may not be 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 set-back does not apply to properly capped or plugged abandoned wells and does not apply to impervious pad or properly diked mixing/loading areas.

Operations that involve 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 percent 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 percent 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 set-backs 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 or rinsates.

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

Disposal of excess pesticide 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 drift to non-target areas:

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

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

Low humidity and high temperatures increase the likelihood of drift to sensitive areas. Avoid applying 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.

Wash application equipment with clean water after use.

ROTATIONAL CROPS:

1) If a crop treated with this product is lost, field corn, seed corn, silage corn, popcorn or sweet corn may be replanted immediately. Do not exceed a total of 3.0 pounds per acre of active ingredient if additional product is applied.

2) Nongrass animal feeds such as alfalfa, clover, lespedeza, lupin, sanfoin, trefoil, and Vetch spp. may be planted 9 months after application. Wheat may be planted 4 months after application.

3) Rotate the next season to the following crops: soybeans, corn (all types), milo (sorghum), tobacco, sugar beets, sunflowers, potatoes, barley, buckwheat, millet (pearl and proso), oats, rye, teosinte, triticale, wild rice; dried shelled bean group *Lupinus* spp. (including grain lupin, sweet lupin and white lupin); *Phaseolus* spp. (includes field bean, kidney bean, lima bean (dry), navy bean, pinto bean, tepary

bean); bean *Vigna* spp. (includes adzuki bean, blackeyed pea, catjang, cowpea, Crowder pea, moth bean, mung bean, rice bean, southern pea and urd bean); broad bean (dry), chickpea, guar, lablab bean, lentil, pea (*Pisum* spp., includes field pea); pigeon pea.

**SOIL TEXTURE**

Applicators should evaluate soil and weed conditions carefully to assure that they choose the lowest effective label rate.

The use rates of this product generally vary with soil texture. Unless soil texture is specifically named, rate tables throughout this label refer to only three soil textural groups: coarse, medium and fine. The following is a listing of the soil textures included in each of these three soil textural groups:

SOIL TEXTURAL 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 textural group for the soil to be treated.

**APPLICATION INFORMATION  
APPLICATION SYSTEMS**

**Ground Broadcast Treatment** □ Apply this product alone or with dry bulk fertilizer blended on-board a pneumatic (air flow) applicator. Use broadcast applicators that can apply this product evenly. Do not apply this product during periods of gusty winds or winds in excess of 15 miles per hour.

**Application with Dry Bulk Fertilizer** □ The herbicide-fertilizer on-board blending process must be completed only by commercial fertilizer or chemical dealerships properly equipped for this procedure. The following is a partial list of the dry fertilizers which may be blended with this product.

Ammonium sulfate	21-0-0
Ammonium phosphate-sulfate	16-20-0
Diammonium phosphate	18-46-0
Potassium chloride	0-0-60
Potassium sulfate	0-0-52
Single super-phosphate	0-20-0
Treble super-phosphate	0-46-0
*Urea	46-0-0

\*Some ureas may be phytotoxic when applied on corn. Use only ureas known to be safe to corn. Blends suitable for use in soybeans, such as 0-26-26 are also approved for use with this product.

**NOTE:** DO NOT blend this product with fertilizers containing ammonium nitrate, potassium nitrate or sodium nitrate.



Apply the herbicide-fertilizer blend uniformly with a properly calibrated pneumatic applicator. Non-uniform application of the herbicide-fertilizer blend may result in unsatisfactory weed control or crop injury.

**Band Treatment**—This product may be applied with any standard granular applicator capable of uniformly distributing a predetermined amount of granules to a desired area. Band treatments made at seeding should only be applied behind the press wheel.

**NOTES:** Caution should be taken with seeding equipment so that any track (soil depression) made by the planter press wheel is minimal. This will reduce concentration of granules in the press wheel track by heavy rain which can result in crop injury. Soil tillage should not follow the use of band applications unless it is adapted so as not to displace the band and hence reduce weed control in the band. In reduced tillage systems, injury may occur if the planter slit is not properly closed during planting.

**CALIBRATION AND HANDLING INSTRUCTIONS**

**NOTE:** Direct contact or exposure to this product should be minimized. The following instructions for transfer, application, 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 and do not use this product until you have the necessary protective clothing.

**1000 Pound Containers**

Open pouring from these containers can result in exposure from dust and is not recommended. This product should be transferred from these containers to the tender unit or pneumatic (air flow) applicator using only Monsanto authorized transfer systems. The transfer system should not be removed from the container or disconnected until the container is emptied. Contact Monsanto Company regarding recommended equipment.

**Equipment Cleaning and 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 shut down and special care should be taken to avoid contact with the pesticide.

**Calibration** □ It is important that the applicator is properly calibrated to deliver the desired amount of this product. An applicator that has not been properly calibrated may result in unsatisfactory weed control or crop injury. For specific guidelines on calibrating your pneumatic applicator contact your pneumatic applicator manufacturer.

**It is important that the user calibrate each individual granular applicator before its use.**

Calculate the amount of Harness 20G herbicide needed for band treatment as follows:

Band width	Broadcast	Band
<u>in inches</u>	Rate	Rate
X	=	
Row width	per acre	per acre
in inches		

For example: If 10 pounds per acre are used for broadcast treatment and you wish to treat a band of 14 inches wide in crop rows spaced 38 inches apart:

$$\frac{14}{38} \times 10 = 3.7 \text{ pounds of granules needed for the band treatment}$$

**NOTE:** For application of this product do not rely on settings used for other granular herbicides.

It is important that the applicator be calibrated properly to deliver the desired amount of this product. To calibrate, set the applicator and attach a bag over the spreader plate or remove the delivery tube and attach a plastic nursing bottle over the spout. Operate at a constant speed on terrain to be planted. Four to 5 miles per hour is suggested. For a 14-inch band, collect the granules for 500 linear feet (583 square feet area) and measure the VOLUME or WEIGHT collected. Tap the plastic nursing bottle or other measuring container gently to settle the granules when taking a reading.

Refer to the following table to determine the broadcast rate per acre for the amount collected. If necessary adjust the application equipment so that each spout dispenses the proper amount.

Broadcast Rate Per Acre [Pounds]	Volume Collected in 500 linear feet for a 14-inch band [fluid ounces]	Weight Collected in 500 linear feet for a 14-inch band [ounces]
8	2.2	1.7
10	2.8	2.1
12	3.3	2.6
13	3.6	2.8

For other band widths calculate the calibration distance as follows:

$$\frac{14 \text{ inches}}{\text{Band width in inches}} \times 500 = \text{Calibration distance in linear feet.}$$

### APPLICATION TIMING AND METHODS

**Fall Applications—**This product may be applied following soybean harvest in the fall in the following states: Iowa, Minnesota, North Dakota, South Dakota, Wisconsin, south of Route 20 in Nebraska, and north of Route 136 in Illinois.

Apply to soybean stubble after October 15, when the sustained soil temperature at 4-inch depth is less than 50°F, *but before ground freezes*. Use on medium- and fine-textured soils with greater than 2.5 percent organic matter. Only corn may be planted the following spring. The ground may be tilled before or after application. Do not exceed 2-inch incorporation depth if tilled after application. If a spring application is made, the total rate of the fall plus spring application must not exceed the maximum labeled rate for corn grown on that soil.

**Early Preplant Surface—**This product may be applied to no-till and other conservation tillage systems before weeds emerge and up to 45 days before planting, with 60 percent of the broadcast rate applied initially and the remaining 40 percent applied at planting. Applications made less than 30 days prior to planting can be made either as a split or single application. If weeds are present at the time of application, apply a contact herbicide. Observe directions for use, precautions and restrictions on the label of the contact herbicide. During the planting operation be careful not to move untreated soil to the surface or move treated soil out of the row, as weed control may be reduced.

**Preplant Incorporation—**This product may be mixed into the soil using shallow incorporation equipment any time within 14 days prior to planting. Refer to the "DIRECTIONS FOR USE" section of this label to

determine if preplant incorporation is recommended. Apply the product to the soil surface as a broadcast application. Precipitation or irrigation is required to bring incorporated herbicide treatments into contact with germinating weed seedlings. The amount of precipitation or irrigation required depends on existing soil moisture, soil type and percent organic matter content, but 1/3 to 3/4 inch is normally adequate. If weeds emerge after treatment, rotary hoe or shallowly cultivate immediately to improve performance.

Shallowly incorporate this product into the upper 1 to 2 inches of the soil. Equipment should be operated at manufacturer's designed speed for the 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. Equipment should be set to work the soil NO DEEPER THAN 4 INCHES. Soil conditions, including moisture content and crop residue levels must be suitable to allow thorough and uniform mixing.

**Preemergence Surface Application**—This product 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 moisture, soil type and percent organic matter content, but 1/3 to 3/4 inch 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.

**CULTIVATION INFORMATION**

If annual grass or broadleaf weed seedlings emerge, rotary hoe immediately to improve weed control.

If cultivation is necessary because of soil crusting or compaction, tillage should be shallow to minimize dilution of this herbicide.

Except for the above, as long as the grasses and weeds are controlled, delay cultivation as long as possible.

**WEEDS CONTROLLED**

Applicators should evaluate soil and weed conditions carefully to assure that they choose the lowest effective label rate.

When applied as directed under the conditions described, this product **CONTROLS** the following weeds:

**ANNUAL GRASSES**

**Barnyardgrass**  
*Echinochloa crus-galli*

**Crabgrass**  
*Digitaria ischaemum*  
*Digitaria sanguinalis*

**Crowfootgrass**  
*Dactyloctenium aegyptium*

**Cupgrass, prairie**  
*Eriochloa contractra*

**Cupgrass, woolly\***  
*Eriochloa villosa*

**Foxtail, robust**  
*Setaria viridis*

**Foxtail, giant**  
*Setaria faberi*

**Foxtail, green**  
*Setaria viridis*

**Foxtail, yellow**  
*Setaria lutescens*

**Goosegrass**  
*Eleusine indica*

**Panicum, browntop**  
*Panicum fasciculatum*

**Panicum, fall**  
*Panicum dichotomiflorum*

**Signalgrass, broadleaf**  
*Brachiaria spp.*

**Sprangletop, red**  
*Leptochloa filiformis*

**Rice, red**  
*Oryza sativa*

**Witchgrass**  
*Panicum capillare*

\* Use 15 pounds of this product per acre to control this weed. Control can be erratic, especially under dry weather conditions. Control escaped weeds with cultivation or application of an appropriate EPA-registered postemergence herbicide.

**ANNUAL BROADLEAVES**

**Carpetweed**  
*Mollugo verticillata*

**Galinsoga**  
*Galinsoga spp.*

**Henbit**  
*Lamium amplexicaule*

**Lambsquarters\***  
*Chenopodium album*

**Nightshade, black**  
*Solanum nigrum*

**Nightshade, hairy**  
*Solanum sarrachoides*

**Pigweed; Carelessweed**  
*Amaranthus spp.*

**Purslane**  
*Portulaca oleracea*

**Pusley, Florida**  
*Richardia scabra*

**Ragweed, common\***  
*Ambrosia artemisiifolia*

**Waterhemp**  
*Amaranthus tuberculatus*

\*Use the higher rate in the treatment rate range if triazine-resistant biotypes are suspected.

### **SEDGES**

**Nutsedge, yellow\***  
*Cyperus esculentus*

\*Use 12 to 15 pounds of this product per acre to control this weed and preplant incorporate for best results.

When applied under the conditions described, this product at a rate of 6 to 15 pounds per acre on a broadcast basis REDUCES COMPETITION from the following hard to control weeds:

### **ANNUAL GRASSES**

**Johnsongrass, seedling**  
*Sorghum halepense*

**Millet, foxtail**  
*Setaria italica*

**Millet, proso**  
*Panicum miliaceum*

**Panicum, Texas**  
*Panicum texanum*

**Sandbur; Grassbur**  
*Cenchrus incertus*

**Shattercane; Wild cane\***  
*Sorghum bicolor*

\*Use 13 to 15 pounds of this product per acre to reduce competition from this weed.

**ANNUAL BROADLEAVES**

**Beggarweed, Florida**

*Desmodium tortuosum*

**Groundcherry, cutleaf**

*Physalis angulata*

**Jimsonweed**

*Datura stramonium*

**Kochia**

*Kochia scoparia*

**Sida, spiny; Teaweed**

*Sida spinosa*

**Smartweed**

*Polygonum pensylvanicum*

*Polygonum persicaria*

**Starbur, bristly**

*Acanthospermum hispidum*

**Velvetleaf; Buttonweed**

*Abutilon theophrasti*

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**Conventional Tillage Systems**

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Field Corn, Production Seed Corn, Silage Corn, Sweet Corn and Popcorn

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**NOTE: This product may be applied following soybean harvest in the fall in the following states: Iowa, Minnesota, North Dakota, South Dakota, Wisconsin, south of Route 20 in Nebraska, and north of Route 136 in Illinois.** If a spring application is made following the fall application, the total rate of the fall plus spring applications must not exceed the maximum labeled rate for corn grown in that soil. Do not exceed a combined total of 15 pounds of Harness 20G herbicide per acre per year. **Only corn may be planted the next spring.**

When making spring applications ONLY on corn, do not exceed the maximum labeled rate for corn grown in that soil. Do not exceed a combined total of 15 pounds of Harness 20G herbicide per acre per year.

See the "APPLICATION TIMING AND METHODS" section of the label for additional application information.

Apply this product 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

APPROVED APPLICATION METHODS

**Post Soybean Harvest (See state restrictions at the beginning of this section of the label)-**

Following soybean harvest, apply to soybean stubble after October 15, when the sustained soil temperature at 4-inch depth is less than 50°F, but before ground freezes. Use on medium- and fine-textured soils with greater than 2.5 percent organic matter. Ground may be tilled before or after application. Do not exceed 2-inch incorporation depth if tilled after application.

**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 during or after planting, before crop and weed emergence and within 5 days after last preplant tillage operation.

**NOTE:** The highest levels of weed control will be obtained when applications are made prior to the emergence of the crop and weeds.

Weeds which are emerged at time of application are not controlled by this product. If weeds are emerged at application, shallowly cultivate or rotary hoe immediately to improve performance.

**APPLICATION RATES:** Refer to the following tables for the 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**

SOIL TEXTURAL GROUP*	BROADCAST RATE PER ACRE (POUNDS)**	
	Less than 3% organic matter	3% or more organic matter
Coarse***	6 to 8	8
Medium	8 to 10	8 to 10
Fine	8 to 10	10 to 12

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

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

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

**Conservation or Minimum Tillage Systems**

Field Corn, Production Seed Corn, Silage Corn, Sweet Corn and Popcorn

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**NOTE: This product may be applied following soybean harvest in the fall in the following states: Iowa, Minnesota, North Dakota, South Dakota, Wisconsin, south of Route 20 in Nebraska, and north of Route 136 in Illinois.** If a spring application is made following the fall application, the total rate of the fall plus spring applications must not exceed the maximum labeled rate for corn grown in that soil. Do not exceed a combined total of 15 pounds of Harness 20G herbicide per acre per year. **Only corn may be planted the next spring.**

This product may be applied Early Preplant, Early Preplant plus Preemergence at planting, or as a Preemergence treatment at planting. When making spring applications ONLY on corn, the total application rate per acre must not exceed the maximum labeled rate for corn grown in that soil. Do not exceed 15 pounds of Harness 20G herbicide per acre per year.

When applied as directed this product will provide preemergence control of 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

**APPROVED APPLICATION METHODS**

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

**Early Preplant-Single Application** - Application of this product should be made less than 30 days before planting but prior to weed emergence.

**Early Preplant-Split Application** - Apply 60 percent of the product as a split application prior to weed emergence and no more than 45 days prior to planting and the remaining 40 percent at or immediately following planting but before crop emergence.

**NOTE:** Application on coarse soils should not be made more than two weeks prior to planting.

If emerged weeds exist at planting, the application of a contact herbicide or tillage is recommended when possible to eliminate existing weeds.

**NOTE:** The highest levels of weed control will be obtained when applications are made prior to the emergence of the crop and weeds.

Weeds which are emerged at time of application are not controlled by this product. If weeds are emerged at time of application, apply a labeled contact herbicide. Observe the directions for use, precautions and restrictions on the label of the contact herbicide.

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

**Surface Application Rates**

SOIL TEXTURAL	BROADCAST RATE PER ACRE (POUNDS)**



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<b>GROUP*</b>	<b>HARNESS 20G</b>
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Coarse***	7 to 9
Medium	10 to 12
Fine	12 to 14

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

\*\*Use the higher rate in the treatment rate range in areas of heavy grass infestation, or when organic matter content is 3 percent or more.

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

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

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Packed for:  
©2008MONSANTO COMPANY  
800 North Lindbergh Boulevard  
St. Louis, Missouri 63167 U.S.A.

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Changes in this submission

Soil restriction  
Storage & Disposal