

ATTENTION:

This specimen label is provided for general information only.

- This pesticide product may not yet be available or approved for sale or use in your area.
- It is your responsibility to follow all Federal, state and local laws and regulations regarding the use of pesticides.
- Before using any pesticide, be sure the intended use is approved in your state or locality.
- Your state or locality may require additional precautions and instructions for use of this product that are not included here.
- Monsanto does not guarantee the completeness or accuracy of this specimen label. The information found in this label may differ from the information found on the product label. You must have the EPA approved labeling with you at the time of use and must read and follow all label directions.
- You should not base any use of a similar product on the precautions, instructions for use or other information you find here.
- Always follow the precautions and instructions for use on the label of the pesticide you are using.

36067M4-2



WARRANT® is an encapsulated herbicide for weed control in Field Corn, Production Seed Corn, Cotton, Forage or Grain Sorghum (Milo), and Soybeans.

EPA Reg. No. 524-591

2014-1

COMPLETE DIRECTIONS FOR USE SHAKE WELL BEFORE USING



ACTIVE INGREDIENT:

*Acetochlor	33.0%
OTHER INGREDIENTS	67.0%
	100.0%

*Contains 359 grams/liter or 3.0 pounds/gallon of 2-chloro- N-ethoxymethyl-N-(2-ethyl-6-methylphenyl) acetamide.

This product is protected by U.S. Patent No. 5,925,595. Other patent(s) pending. No license is granted under any non-U.S. patent(s). For a list of patents, if any, covering this product or its use, please go to www.monsantotechnology.com.

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.

Not for Sale, Sale Into, Distribution and/or Use in Nassau and Suffolk Counties of New York State.

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

1.0 IMPORTANT PHONE NUMBERS

1. FOR **PRODUCT INFORMATION** OR ASSISTANCE IN USING THIS PRODUCT,
CALL TOLL-FREE, **1-800-332-3111**
2. IN CASE OF AN **EMERGENCY** INVOLVING THIS HERBICIDE PRODUCT, OR FOR **MEDICAL ASSISTANCE**,
CALL COLLECT, DAY OR NIGHT, **(314)-694-4000**

2.0 PRECAUTIONARY STATEMENTS

2.1 Hazards to Humans and Domestic Animals

Keep out of reach of children.

CAUTION!

HARMFUL IF ABSORBED THROUGH THE SKIN OR INHALED.

MAY CAUSE ALLERGIC SKIN REACTION. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

Avoid breathing vapor or spray mist.

Remove contaminated clothing and wash before reuse.

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

FIRST AID: Call a poison control center or doctor for treatment advice.

IF ON SKIN OR CLOTHING

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Sensitized persons should avoid further contact and reuse of contaminated clothing.

IF INHALED

- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.

- Have the product container or label with you when calling a poison control center or doctor, or going for treatment.
- You may also contact **(314) 694-4000**, collect day or night, for emergency medical treatment information.
- This product is identified as **WARRANT Herbicide, EPA Registration No. 524-591**.

Personal Protective Equipment (PPE):

Some of the materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category A on an EPA chemical-resistance category selection chart.

Applicators and other handlers must wear: long-sleeved shirt and long pants, chemical-resistant gloves made of any waterproof material such as polyethylene or polyvinylchloride, and shoes plus socks.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

Engineering Controls: 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/PPE 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.

2.2 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 wash water.

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.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any manner inconsistent with its labeling. This product may only be used in accordance with the Directions for Use on this label or in separately published Monsanto Supplemental labeling. Supplemental labeling can be obtained from your Authorized Monsanto Retailer or Monsanto Company Representative.

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.

Not for Sale, Sale Into, Distribution and/or Use in Nassau and Suffolk Counties of New York State.

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

3.0 STORAGE AND DISPOSAL

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, including rinsate, 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: See container label for container handling and disposal instructions and refilling limitations.

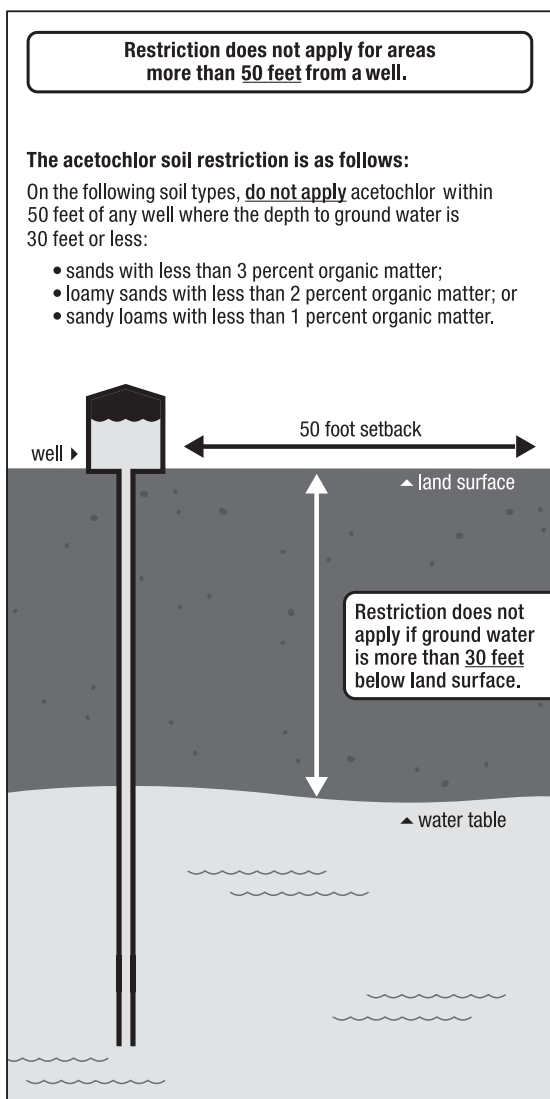
4.0 PRODUCT INFORMATION

WARRANT Herbicide is for control of the annual grasses and broadleaf weeds listed in the "WEEDS CONTROLLED" section of this label. This product will not control emerged seedlings. This product is to be applied preplant, at-planting, preemergence, and/or postemergence to the labeled crops and preemergence to the weeds. Read and carefully observe precautionary statements and all other information appearing on the labeling of all products used in mixtures and sequential treatments.

4.1 Use Restrictions

Not for Sale, Sale Into, Distribution and/or Use in Nassau and Suffolk Counties of New York State.

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 50 feet of any 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. See the figure for additional clarification.



This product may not be mixed or loaded within 50 feet of any wells (including abandoned wells and drainage wells), sink holes, perennial or 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.

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 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 setbacks and operational containment.

Maximum Application Rates: The maximum application or use rates stated throughout this label are given in units of volume (fluid ounces or quarts) of this product per acre. However, the maximum allowed application rates, apply to this product combined with the use of any and all other herbicides containing the active ingredient acetochlor, whether applied separately or in a tank mixture, on a basis of total pounds of acetochlor per acre. If more than one acetochlor-containing product is applied to the same site within the same year, do not exceed the allowed maximum total of 3 pounds per acre of acetochlor. See the "INGREDIENTS" section of this label for necessary product information.

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.

Make applications of this product soon after preparing the spray mixture. Applications made using spray solutions of this product which have been allowed to stand or have been stored in application equipment or the mix tank for an extended period of time could result in crop injury.

Do not apply this product through any type of irrigation system except under conditions specified on this label, or otherwise directed on separately published supplemental labeling for this product in possession of the user at the time of application.

Do not apply this product using center pivot equipment except under the conditions specified in the Center Pivot Application Equipment section of this label, or on separately published center pivot application supplemental labeling for this product in possession of the user at the time of application.

Disposal of excess pesticide, spray mixtures or rinsate must 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, except under the conditions specified, and only in the states listed, in the Aerial Application Equipment section of this label, or only in other states listed in separately published aerial application supplemental labeling for this product in possession of the user at the time of application.

- 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 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 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.

Flush sprayer with clean water after use.

Dry weather may reduce effectiveness of this product. Cultivate if weeds develop.

4.2 Rotational Crops

1) If a crop treated with this product is lost, the following crops may be replanted immediately, but could result in crop injury: corn (all types), cotton, milo (sorghum), peanuts, soybeans, and non-food or non-feed winter cover crops.

When planting milo (sorghum) use only seed properly treated with seed protectant or safener.

Do not graze or harvest winter cover crops for food or animal feed for a minimum of 18 months following last application of this product or any other product containing acetochlor.

Do not exceed the annual maximum total of 3.0 pounds per acre of acetochlor active ingredient if additional product is applied.

2) Nongrass animal feeds such as alfalfa, clover, kudzu, lespedeza, lupin, sainfoin, trefoil, velvet bean, and Vetch spp. may be planted 9 months after application.

3) Wheat may be planted 4 months after application.

4) Rotate the next season to the following crops: **barley, bean *Vigna* spp.** (includes: adzuki bean, blackeyed pea, catjang, cowpea, Crowder pea, moth bean, mung bean, rice bean, southern pea and urd bean); **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); **broad bean (dry) chickpea, guar, lablab bean, lentil, pea (*Pisum* spp., includes field pea); **pigeon pea, buckwheat, corn (all types), cotton, milo (sorghum), millet (pearl and proso), oats, peanuts, potatoes, rice, rye, soybeans, sugar beets, sunflowers, tobacco, teosinte, triticale, wild rice.****

5.0 WEED RESISTANCE MANAGEMENT

GROUP

15

HERBICIDE

Acetochlor, the active ingredient in this product, is a Group 15 herbicide based on the mode of action classification system of the Weed Science Society of America. Any weed population can contain plants naturally resistant to Group 15 herbicides. Weed species resistant to Group 15 herbicides may be effectively managed utilizing another herbicide from a different Group, or by using other cultural or mechanical practices.

General principles of herbicide resistance management:

1. Apply integrated weed management practices. Use multiple herbicide modes-of-action with overlapping weed spectrums in rotation, sequences, or mixtures.
2. Use the full recommended herbicide rate and proper application timing for the hardest to control weed species present in the field.
3. Scout fields after herbicide application to ensure control has been achieved. Avoid allowing weeds to reproduce by seed or to proliferate vegetatively.
4. Monitor site and clean equipment between sites.

For annual cropping situations also consider the following:

- Start with a clean field and control weeds early by using a burndown treatment or tillage in combination with a preemergence residual herbicide as appropriate.
- Use cultural practices such as cultivation and crop rotation, where appropriate.
- Use good agronomic principles that enhance crop competitiveness
- Use new commercial seed that is as free of weed seed as possible.

Report any incidence of repeated non-performance of this product on a particular weed to your Monsanto representative, local retailer, or county extension agent.

6.0 SOIL TEXTURE

Applicators should evaluate soil conditions carefully to assure that they choose the correct label rate.

The 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 textural groups: coarse, medium and fine. The following is a complete listing of 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.

7.0 MIXING, SPRAYING AND HANDLING

NOTE: 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 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 spray 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.

7.1 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 shut down, and special care taken to avoid contact with the pesticide.

7.2 Sprayer Compatibility

Always predetermine the compatibility of this product or labeled tank mixtures of this product with water carrier by mixing small proportional quantities in advance.

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.

7. Complete filling the sprayer tank with carrier. If a Roundup[®] agricultural herbicide or a Gramoxone brand herbicide 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 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.

8.0 APPLICATION SYSTEMS

8.1 Ground Broadcast Treatment

Apply this product and the labeled tank mixtures in 10 or more gallons of solution per acre using broadcast boom equipment. Do not apply during periods of gusty winds, when winds are in excess of 15 miles per hour or when other conditions favoring drift exist.

8.2 Aerial Application Equipment: Fixed-Wing and Helicopter

Unless otherwise prohibited, all applications of WARRANT Herbicide described on this label or in separately published supplemental labeling for this product may be made using aerial application equipment where appropriate, provided that the applicator complies with the precautions and restrictions specified on this label and on separate supplemental labeling published for this product.

Aerial applications of this product may be made in the following listed states only, or only in other states listed on separately published aerial application supplemental labeling for this product:

Alabama, Arkansas, Colorado, Georgia, Kansas, Kentucky, Louisiana, Mississippi, Missouri, Nebraska, North Carolina, North Dakota, Oklahoma, South Carolina, Tennessee, Texas, and Virginia

Do not apply WARRANT Herbicide using aerial application equipment except under conditions specified on this label or in separately published aerial application supplemental labeling for this product.

Apply this product at the appropriate rate as directed on this label in 3 to 15 gallons of water per acre unless otherwise directed on this label or in separate supplemental labeling or Fact Sheets published for this product. Unless otherwise specified, do not exceed 2 quarts of this product per acre when using aerial application equipment. Refer to the individual use area sections of this label for application rates, spray volumes and additional use instructions.

Ensure uniform application. To avoid streaked, uneven or overlapped application, use appropriate marking devices.

AERIAL SPRAY DRIFT MANAGEMENT

The following drift management requirements must be followed to avoid off-target drift movement from aerial application to agricultural field crops.

1. The distance of the outermost nozzles on the boom must not exceed 3/4 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 the application is 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 pressure listed 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 air stream, 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 3/4 of the wingspan or rotor length could further reduce drift without reducing swath width.
- **Application height:** Application must be made at a height of 10 feet or less above the top of the largest plants unless a greater height is required for aircraft safety. Making the application at the lowest height that is safe reduces the exposure of the droplets to evaporation and wind.

Swath Adjustment

When an application is made with a crosswind present, the swath will be displaced downwind. 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. Increase the swath adjustment distance with increasing drift potential (higher wind, smaller droplets, etc.).

Wind

Drift potential is lowest between wind speeds of 2 to 10 miles per hour. However, many factors, including droplet size and equipment type, determine drift potential at any given speed. Avoid application when wind speeds are below 2 miles per hour due to variable wind direction and high inversion potential. **NOTE:** Local terrain can influence wind patterns. Every applicator must 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

Do not apply 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

Apply this product only 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).

Aircraft Maintenance

Thoroughly wash aircraft, especially landing gear, after each day of spraying to remove residues of this product accumulated during spraying or from spills. PROLONGED EXPOSURE OF THIS PRODUCT TO UNCOATED STEEL SURFACES COULD RESULT IN CORROSION AND POSSIBLE FAILURE OF THE PART. LANDING GEAR IS MOST SUSCEPTIBLE. The maintenance of an organic coating (paint) that meets aerospace specification MIL-C-38413 can help prevent corrosion.

8.3 Center Pivot Application Equipment

All treatments described on this label or separately published supplemental labeling for this product may be made using center pivot irrigation equipment where appropriate, provided that the applicator complies with the precautions and restrictions specified on this label and in separate supplemental labeling published for this product.

This product alone or in tank mixture with other herbicides on this label, which are registered for center pivot application, may be applied using center pivot irrigation systems. Do not apply this product through any other type of irrigation system.

Ensure that the soil type and depth to ground water comply with the following restriction. On the following soil types, do not apply this product within 50 feet of any 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.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water. Use only in systems that apply uniformly.

If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.

Do not chemigate through systems connected to a public water system.

A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise. Do not apply when system connections or fittings leak, when nozzles do not provide uniform distribution or when the line containing the product must be dismantled and drained.

The system must contain a functional check valve, vacuum relief valve and low-pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from back flow.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must also contain a functional, normally closed, solenoid operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

The irrigation line or water pump must include a functional pressure switch that will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a systems interlock. Pumps, injection equipment, agitation equipment, hoses and connections between supply tank and the point of injection must be constructed of materials which are resistant to this product.

Meter this product or a labeled tank-mixture of this product into the center pivot irrigation system after planting and before crop emergence. Herbicide application should be made in 1/2 to 3/4 inch of water per acre. Do not apply in more than 3/4 inch of water per acre under any conditions or reduced performance may occur. On very sandy soils (more than 60 percent sand and less than 1 percent organic matter), use a maximum of 1/2 inch water per acre. Good agitation must be maintained during the entire application period. Flush the system with water when application is complete. Refer to the "MIXING, SPRAYING AND HANDLING" section of the label for mixing procedures.

Do not apply this product in a tank-mixture through center pivot irrigation unless the treatment is specifically recommended on the label of the tank mixture product.

9.0 APPLICATION TIMING AND METHODS

9.1 Preplant, At-Planting, and Preemergence Surface Application

Applications of this product may be made prior to planting, at-planting, or prior to emergence of the crops listed on this label. WARRANT Herbicide will not control emerged weeds so it must be applied to a weed-free soil surface or in a tank-mixture with products that provide postemergence control of weeds at the time of application. Read and follow all restrictions and directions on tank-mix product labels. Precipitation or overhead sprinkler irrigation is required after application to move the herbicide into the weed germination zone to control unemerged weeds. The amount of precipitation or irrigation required depends on existing soil moisture, soil type and percent organic matter content, but 1/2 to 3/4 inch is normally adequate. Do not utilize mechanical incorporation unless specifically recommended on this label or on separately published supplemental labeling for this product. If weeds emerge after treatment, rotary hoe or shallowly cultivate to control weeds.

9.2 Postemergence Surface Application

Postemergence surface applications of this product must be made postemergence to the crop but prior to weed seedling emergence or in a tank mixture that controls emerged weeds. WARRANT Herbicide will not control emerged weeds so it must be applied to a weed-free soil surface or in a tank-mixture with products that provide postemergence control of weeds at the time of application. Read and follow all restrictions and directions on tank-mix product labels. Precipitation or overhead sprinkler irrigation is required after application to move the herbicide into the weed germination zone to control un-emerged weeds. The amount of precipitation or irrigation required depends on existing soil moisture, soil type and percent organic matter content, but 1/2 to 3/4 inch is normally adequate. If weeds emerge after treatment, rotary hoe or shallowly cultivate to control weeds.

NOTE: DO NOT make postemergence surface applications using sprayable fluid fertilizer as the carrier because severe crop injury may occur.

9.3 Cultivation Information

Delay cultivation after application of this product 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.

10.0 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.

NOTE: C = Control R = Reduced Competition

10.1 Annual Grasses

Barnyardgrass <i>Echinochloa crus-galli</i>	C
Crabgrass <i>Digitaria ischaemum</i>	C
Crowfootgrass <i>Dactyloctenium aegyptium</i> (L.) Willd.	C
Cupgrass, prairie <i>Eriochloa contracta</i> Hitchc	C
Foxtail: giant <i>Setaria faberi</i> green robust purple, robust white <i>Setaria viridis</i> yellow <i>Setaria lutescens</i>	C
Goosegrass <i>Eleusine indica</i>	C
Johnsongrass, seedling <i>Sorghum halepense</i>	R
Millet: foxtail <i>Setaria italica</i>	R
Oat, wild <i>Avena fatua</i>	R

Panicum: browntop, <i>Panicum fasciculatum</i> fall, <i>Panicum dichotomiflorum</i>	C
Panicum, Texas <i>Panicum texanum</i>	R
Rice, red <i>Oryza sativa</i>	C
Sandbur; Grassbur <i>Cenchrus incertus</i>	R
Shattercane; Wild cane <i>Sorghum bicolor</i>	R
Signalgrass, broadleaf <i>Brachiaria platyphylla</i>	C
Sprangletop, red <i>Leptochloa filiformis</i>	C
Wheat, volunteer <i>Triticum aestivum</i>	R
Witchgrass <i>Panicum capillare</i> L.	C

10.2 Annual Broadleaves

Beggarweed, Florida <i>Desmodium tortuosum</i>	R
Carpetweed <i>Mollugo verticillata</i>	C
Galinsoga <i>Galinsoga spp.</i>	C
Groundcherry, cutleaf <i>Physalis angulata</i>	R
Henbit <i>Lamium amplexicaule</i>	C
Lambsquarters <i>Chenopodium album</i>	C
Nightshade, black, hairy, Solanum nigrum, Solanum sarrochoides	C

Pigweed: Carelessweed <i>Amaranthus spp.</i>	C
Purslane <i>Portulaca oleracea</i>	C
Pusley, Florida <i>Richardia scabra</i>	C
Sida, prickly; Teaweed <i>Sida spinosa</i>	R
Smartweed <i>Polygonum pensylvanicum</i>	R
Starbur, bristly <i>Acanthospermum hispidum</i>	R
Waterhemp <i>Amaranthus tuberculatus</i>	C

11.0 FIELD CORN AND PRODUCTION SEED CORN

11.1 WARRANT Herbicide for Preplant, At-Planting, or Preemergence Applications in Field Corn

Applications of this product may be made preplant, at-planting, or preemergence in field corn in the following listed states only, or only in other states listed on separately published supplemental labeling for this product:

Alabama, Arkansas, Georgia, Hawaii, Louisiana, Mississippi, New Mexico, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, and Virginia

When applied preplant, at-planting, or preemergence in field corn and production seed corn, including Corn Hybrids with Roundup Ready 2 Technology, this product will provide preemergence control or reduced competition of the annual weeds listed in the "WEEDS CONTROLLED" section of this label. If weeds are emerged at the time of application, apply a labeled postemergence herbicide to control emerged weeds. Use of a residual herbicide for the control of weeds not listed on this label is recommended. Applications may be made in a tank mixture with the products listed below. Observe all directions for use, precautions, and restrictions on the labeling of the tank mixed postemergence herbicide or residual herbicide.

Approved Application Systems

Ground: Broadcast boom

Aerial: Fixed-wing and helicopter. **Allowed in selected states only** - see Aerial Application Equipment, Section 8.2 of this label for additional information.

Approved Application Methods

Preplant, At-planting or Preemergence Surface

WARRANT Herbicide may be applied preplant, at-planting or preemergence to field corn and production seed corn at 1.5 to 3 quarts per acre (qts/A) according to the rate table below. Apply broadcast to the soil surface according to the rate table listed below. Mechanical incorporation is not recommended. This product applied alone will not control emerged weeds.

Application of this product, followed by conditions that do not favor adequate crop growth, or which cause stress (cold, wet soils), or under waterlogged conditions from excessive irrigation or rainfall, may result in crop response. Do not apply if these conditions are forecast within 10 days of application. Application of this product with other residual herbicides may increase the potential for crop injury.

Application Rates (minimum and maximum range)

SOIL TEXTURAL GROUP	BROADCAST RATE PER ACRE*	
	Less than 3% Organic Matter (quarts)	3% or More Organic Matter (quarts)
Coarse	1.5 to 2.0	2.0
Medium	1.5 to 2.75	2.0 to 2.75
Fine	1.5 to 2.75	2.75 to 3.0

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

Tank Mixes: This product may be applied preplant, at-planting or preemergence in a tank-mixture with the following products for improved residual weed control spectrum in field corn. Ensure that the specific product being used in the tank-mixture is registered for application preemergence to field corn. Read and follow label directions of all products in the tank-mixture. The most restrictive label directions apply. The user is responsible for ensuring that the specific application being made is included on the labeling of the tank mixture product being used.

Aim® EC, carfentrazone, Balance® PRO, Balance® Flexx, isoxaflutole, Callisto®, mesotrione, Clarity®, dicamba, Distinct®, diflufenopyr, Linex® 4L, Lorox® DF, linuron, Marksman®, Princep®, simazine, Resource®, flumiclorac, Roundup® Brand Agricultural herbicides, 2,4-D, Atrazine.

11.2 WARRANT Herbicide for Postemergence Use In Field Corn

This product, when applied postemergence in field corn and production seed corn, including Corn Hybrids with Roundup Ready 2 Technology, as one or two applications, will provide preemergence control or reduced competition of the annual grasses and broadleaf weeds listed in the "WEEDS CONTROLLED" section of this label. If weeds are emerged at time of application, apply a labeled postemergence herbicide with this product to control the emerged weeds. Observe the directions for use, precautions and restrictions on the label of the postemergence herbicide.

Approved Application Systems

Ground: Broadcast boom

Aerial: Fixed-wing and helicopter. **Allowed in selected states only** - see Aerial Application Equipment, Section 8.2 of this label for additional information.

Approved Application Methods

Postemergence Surface

Apply this product prior to weed emergence in emerged field corn, including Corn Hybrids with Roundup Ready 2 Technology. The product may be applied from seedling emergence until the corn reaches 30 inches in height. Directed spray may be used to minimize interference of spray by crop and to increase soil coverage. Drop nozzles will provide optimum spray coverage and weed control when corn height is 24 to 30 inches. Use rates are defined in the table below. Use the higher rate on larger weeds and where heavy weed infestations exist. Weeds emerged at the time of application are not controlled by this product. If weeds are emerged at application, apply a labeled postemergence herbicide with this product to control the emerged weeds, or shallowly cultivate or rotary hoe to improve performance. See section 11.4 of this label for recommended tank mix products for postemergence applications in field corn.

Apply WARRANT Herbicide broadcast over-the-top or directed to the soil surface, according to the rate table listed below. An application before weeds emerge, or after clean cultivation is necessary as this product will not control emerged weeds.

DO NOT apply WARRANT Herbicide on sweet corn.

DO NOT exceed 4 quarts (3 lbs acetochlor) per acre per year of acetochlor when making multiple applications.

DO NOT make postemergence surface applications using sprayable fluid fertilizer as the carrier because severe crop injury may occur.

DO NOT graze treated area or feed treated forage to livestock for 40 days following application of this product.

Application Rates (minimum and maximum range)

SOIL TEXTURAL GROUP	BROADCAST RATE PER ACRE*	
	Less than 3% Organic Matter (quarts)	3% or More Organic Matter (quarts)
Coarse	1.5 to 2.0	2.0
Medium	1.5 to 2.75	2.0 to 2.75
Fine	1.5 to 2.75	2.75 to 3.0

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

11.3 WARRANT Herbicide plus Roundup Agricultural Herbicides on Corn Hybrids with Roundup Ready 2 Technology

This program may be used **postemergence**, from seedling emergence until the corn reaches 30 inches in height, in tank mixture with Roundup agricultural herbicides on corn hybrids with Roundup Ready 2 Technology. Corn hybrids with Roundup Ready 2 Technology include Roundup Ready Corn 2 and seed products displaying the Roundup Ready 2 Technology logo. Refer to Roundup agricultural herbicide labels for specific weeds controlled postemergence.

Approved Application Systems

Ground: Broadcast boom

Aerial: Fixed-wing and helicopter. **Allowed in selected states only** - see Aerial Application Equipment, Section 8.2 of this label for additional information.

Approved Application Methods

Postemergence Surface

This tank mix may be applied from seedling emergence until the corn reaches 30 inches in height. Directed spray may be used to minimize interference of spray by crop and to increase soil coverage. Drop nozzles are recommended for optimum spray coverage and weed control when corn height is 24 to 30 inches. Labeled use rates for this tank mix are defined in the table below. Use the higher rate on larger weeds and where heavy weed infestations exist. This tank mix should be applied when weeds are 2 to 4 inches in height and before the weed height and/or density become competitive with the crop.

For difficult to control weeds such as fall panicum, barnyardgrass, crabgrass, shattercane, broadleaf signalgrass and Pennsylvania smartweed use the higher rates of Roundup agricultural herbicides.

DO NOT use WARRANT Herbicide on sweet corn.

DO NOT exceed 4 quarts (3 lbs. acetochlor) per acre per year when making a second application.

DO NOT make postemergence surface applications using sprayable fluid fertilizer as the carrier because severe crop injury may occur.

DO NOT graze treated area or feed treated forage to livestock for 40 days following application of this product.

AVOID DRIFT. EXTREME CARE MUST BE USED WHEN APPLYING THIS PRODUCT IN A TANK MIXTURE WITH A ROUNDUP AGRICULTURAL HERBICIDE TO PREVENT INJURY TO DESIRABLE PLANTS AND CROPS WHICH DO NOT CONTAIN A GLYPHOSATE TOLERANCE GENE.

Application Rates (minimum and maximum range)

SOIL TEXTURAL GROUP	BROADCAST RATE PER ACRE*	
	WARRANT HERBICIDE (quarts)	ROUNDUP AGRICULTURAL HERBICIDES
Coarse	1.5 to 2.0	Per Labeled Rate
Medium	1.5 to 2.75	Per Labeled Rate
Fine	1.5 to 3.0	Per Labeled Rate

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

11.4 WARRANT Herbicide Additional Tank-Mixtures for Postemergence Use in Field Corn (All Types)

This product may be tank-mixed with the following products for postemergence applications in field corn and production seed corn, including corn hybrids with Roundup Ready 2 Technology, include Roundup Ready Corn 2 Ensure that the specific product being used in the tank mixture is registered for application postemergence (in-crop) to field corn or production seed corn. Read and follow label directions of all products in the tank mixture. The most restrictive label directions apply.

Aim®, Aim® EC, Axiom®, Balance®, Banvel®, Callisto®, Clarity®, Define™, Distinct®, Epic™, Hornet®, Impact®, Linex®, Lorox®, Marksman®, Prowl®, Python®, Resource®, Shark®, 2,4-D, atrazine, carfentrazone-ethyl, clopyralid, dicamba, diflufenopyr, flumetsulam, flumiclorac pentyl ester, glyphosate, isoxaflutole, linuron, mesotrione, metribuzin, pendimethalin, rimsulfuron, topramezone.

12.0 COTTON

12.1 WARRANT Herbicide for Preplant, At-Planting, or Preemergence Use in Cotton

When applied preplant, at-planting, or preemergence to cotton, including Roundup Ready Flex cotton, as one or two applications, this product will provide preemergence control or reduced competition of the annual grasses and broadleaf weeds listed in the "WEEDS CONTROLLED" section of this label. If weeds are emerged at time of application apply a labeled postemergence herbicide with this product to control the emerged weeds. Use of a residual herbicide for the control of weeds not listed on this label is recommended. Applications may be made in a tank mixture with the products listed below. Observe the directions for use, precautions and restrictions on the label of the tank mixture herbicide.

Approved Application Systems

Ground: Broadcast boom

Aerial: Fixed-wing and helicopter. **Allowed in selected states only - see Aerial Application Equipment Section 8.2 of this label for additional information.**

Approved Application Methods

Preplant, At-planting or Preemergence Surface

WARRANT Herbicide may be applied preplant, at-planting or preemergence to cotton at 1.25 to 2 quarts per acre (qts/A) according to the rate table below. The optimum rate of application is 1.5 qts/A. Apply broadcast to the soil surface according to the rate table listed below. Mechanical incorporation is not recommended. This product will not control emerged weeds.

Application of this product with other postemergence or soil applied herbicides may increase the potential for crop injury.

Application of this product followed by conditions that do not favor adequate crop growth or which cause stress (cold, wet soils), or under waterlogged conditions from excessive irrigation or rainfall, may result in crop injury.

DO NOT exceed 4 quarts (3 lbs acetochlor) per acre per year when making a second application, including a postemergence application in cotton.

Application Rates (minimum and maximum range)

SOIL TEXTURAL GROUP	BROADCAST RATE PER ACRE*	
	Less than 1.5% Organic Matter (quarts)	1.5% or More Organic Matter (quarts)
Coarse	1.25 to 1.6	1.25 to 1.7
Medium	1.25 to 1.7	1.25 to 1.9
Fine	1.25 to 1.9	1.25 to 2.0

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

Tank Mixtures: This product may be tank mixed with the following products when applied preplant, at-planting, or preemergence in cotton. Ensure that the specific product being used in the tank mixture is registered for application in the specific crop. Read and follow label direction of all products in the tank mixture. The most restrictive label directions apply. The user is responsible for ensuring that the specific application being made is included on the labeling of the tank mixture product being used.

Caparol® 4L, Cotoran® 4L, Direx® 4L, Gramoxone Inteon®, Flexstar® GT, Prowl®, Reflex®, Roundup Brand Agricultural Herbicides, Rowel™, Staple®, Valor®, diuron, fluometuron, flumioxazin, fomesafen, paraquat, pendimethalin, prometryn, pyriithiobac-sodium.

12.2 WARRANT Herbicide for Postemergence Use in Cotton

When applied postemergence to cotton, including to Roundup Ready Flex cotton, as one or two applications, this product will provide preemergence control or reduced competition of the annual grasses and broadleaf weeds listed in the "WEEDS CONTROLLED" section of this label. If weeds are emerged at time of application apply a labeled postemergence herbicide with this product to control the emerged weeds. Use of a residual herbicide for the control of weeds not listed on this label is recommended. See sections 12.4 and 12.5 of this label for recommended tank mix products for postemergence applications in cotton. Observe the directions for use, precautions and restrictions on the label of the postemergence herbicide.

Approved Application Systems

Ground: Broadcast boom

Aerial: Fixed-wing and helicopter. **Allowed in selected states only - see Aerial Application Equipment, Section 8.2 of this label for additional information.**

Approved Application Methods

Postemergence Surface

Apply this product postemergence to cotton and prior to weed emergence. The application should be made after cotton is completely emerged but before cotton reaches first bloom. Apply this product when crop is small or direct spray to the soil surface to minimize interference of spray by crop. The optimum timing and rate of application is when cotton is in 2 to 3 leaf stage or prior to weed emergence at 1.5 qts/A. Directed applications may be used to increase soil coverage and canopy penetration after cotton reaches 5 to 6 leaf stage. Use rates are defined in the table below. Use the higher rate where heavy weed infestations exist. Weeds emerged at the time of application are not controlled by this product. If weeds are emerged at application, apply a labeled postemergence herbicide with this product to control the emerged weeds or shallowly cultivate or rotary hoe to improve performance. See sections 12.4 and 12.5 of this label for recommended tank mix products for postemergence over-the-top and post-direct applications in cotton.

Apply this product broadcast over-the-top or directed to the soil surface, according to the rate table listed below. Application before weeds emerge, or after clean cultivation is necessary as this product will not control emerged weeds.

In sprinkler-irrigated areas, sprinkler irrigate after application with 1/2-3/4 inch of water (1/2 inch on coarse-textured soils to 3/4 inch on fine-textured soils) to incorporate product. In furrow-irrigated areas, apply product, incorporate with a rolling cultivator or similar implement that provides uniform shallow incorporation (2 inches or less), and then irrigate. In non-irrigated areas, if at least 1/2 inch of rainfall does not occur within 10 days after application, cultivate with a rolling cultivator or similar implement that provides shallow incorporation of the product.

DO NOT make postemergence surface applications using sprayable fluid fertilizer as the carrier because severe crop injury may occur.

DO NOT graze treated area or feed treated cotton forage to livestock following application of this product.

DO NOT exceed 4 quarts (3 lbs acetochlor) per acre per year when making a second application.

Application Rates (minimum and maximum range)

SOIL TEXTURAL GROUP	BROADCAST RATE PER ACRE*	
	Less than 1.5% Organic Matter (quarts)	1.5% or More Organic Matter (quarts)
Coarse	1.25 to 1.6	1.25 to 1.7
Medium	1.25 to 1.7	1.25 to 1.9
Fine	1.25 to 1.9	1.25 to 2.0

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

12.3 WARRANT Herbicide plus Roundup Agricultural Herbicides in Roundup Ready Flex Cotton

This program may be used postemergence in a tank mixture with a Roundup agricultural herbicide in Roundup Ready Flex Cotton. Apply postemergence when cotton is completely emerged until cotton reaches first bloom. Refer to Roundup agricultural herbicide labels for specific weeds controlled postemergence.

Approved Application Systems

Ground: Broadcast boom

Aerial: Fixed-wing and helicopter. **Allowed in selected states only - see Aerial Application Equipment, Section 8.2 of this label for additional information.**

Approved Application Methods

Postemergence Surface

This tank mix may be applied after cotton is completely emerged and until cotton reaches first bloom. The optimum timing and rate of application is when cotton is in 2 to 3 leaf stage at 1.5 qts/A. Directed applications may be used to increase soil coverage and canopy penetration after cotton reaches 5 to 6 leaf stage. Labeled use rates for this tank mix are defined in the table below. Use the higher rate on larger weeds and where heavy weed infestations exist. This tank mix should be applied when weeds are 2 to 4 inches in height and before the weed height and/or density become competitive with the crop.

For difficult to control weeds such as fall panicum, barnyardgrass, crabgrass, shattercane, broadleaf signalgrass and Pennsylvania smartweed use the higher rates of Roundup agricultural herbicides.

DO NOT make postemergence surface applications using sprayable fluid fertilizer as the carrier because severe crop injury may occur.

AVOID DRIFT. EXTREME CARE MUST BE USED WHEN APPLYING THIS PRODUCT IN A TANK MIXTURE WITH A ROUNDUP AGRICULTURAL HERBICIDE TO PREVENT INJURY TO DESIRABLE PLANTS AND CROPS WHICH DO NOT CONTAIN A GLYPHOSATE TOLERANCE GENE.

DO NOT exceed 4 quarts (3 lbs. acetochlor) per acre per year when making a second application.

DO NOT graze treated area or feed treated cotton forage to livestock following application of this product.

Application Rates (minimum and maximum range)

SOIL TEXTURAL GROUP	BROADCAST RATE PER ACRE*	
	WARRANT HERBICIDE (quarts)	ROUNDUP AGRICULTURAL HERBICIDES
Coarse	1.25 to 1.7	Per Labeled Rate
Medium	1.25 to 1.9	Per Labeled Rate
Fine	1.25 to 2.0	Per Labeled Rate

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

12.4 WARRANT Herbicide Additional Tank-Mixtures for Postemergence Over-The-Top Use in Cotton (All Types)

This product may be tank-mixed with the following products when applied postemergence over-the-top in cotton. Ensure that the specific product being used in the tank mixture is registered for application postemergence over-the-top to cotton. Read and follow label directions of all products in the tank mixture. The most restrictive label directions apply.

Assure® II, Envoke®, Fusilade®, Ignite®, Poast Plus®, Pyrimax™, Select Max®, Staple®, clethodim, fenoxaprop-P-ethyl, fluzafop-P, pyriithiobac sodium, quizalofop-P-ethyl, sethoxydim

12.5 WARRANT Herbicide Additional Tank-Mixtures for Post-Directed Use in Cotton (All Types)

This product may be tank-mixed with the following products when applied post-directed in cotton. Ensure that the specific product being used in the tank mixture is registered for application post-directed over-the-top to cotton. Read and follow label directions of all products in the tank mixture. The most restrictive label directions apply.

Aim®, Caparol®, Chateau®, Direx®, Envoke®, Layby™ Pro, Rowel™, Staple®, Valor®, carfentrazone-ethyl, diuron, flumioxazin, MSMA, pendimethalin, quizalofop-P-ethyl, prometryn, pyriithiobac sodium, trifloxysulfuron-sodium

13.0 FORAGE AND GRAIN SORGHUM (MILO)

13.1 WARRANT Herbicide Preplant Incorporated, Preemergence, or Postemergence in Sorghum

This product, when applied preplant incorporated, preemergence, or postemergence in sorghum, as one or two applications, will provide preemergence control or reduced competition of the annual grasses and broadleaf weeds listed in the "WEEDS CONTROLLED" section of the label. If weeds are emerged at time of application, apply a labeled postemergence herbicide with this product to control the emerged weeds. Observe the directions for use, precautions and restrictions on the label of the postemergence herbicide.

Preplant Incorporated and preemergence applications of this product must be made ONLY to sorghum planted with seed that has been properly treated with seed protectant or safener. Application rates from the table below should be based on the soil texture and the tolerance of the sorghum hybrid.

NOTE: In Texas, use only in the Panhandle area and the fine-textured soils of the Gulf Coast and the Blacklands. In the Texas Panhandle and Oklahoma Panhandle, do not apply preplant incorporated.

Approved Application Systems

Ground: Broadcast boom

Aerial: Fixed-wing and helicopter. **Allowed in selected states only - see Aerial Application Equipment, Section 8.2 of this label for more information.**

Approved Application Methods

Preplant Incorporated; Preemergence Surface; Postemergence Surface

Apply this product preplant incorporated, preemergence, or postemergence to sorghum before the crop exceeds 11 inches in height (in general, 5 to 6 leaf sorghum). This product will not control emerged weeds, therefore, emerged weeds must be controlled by a labeled postemergence herbicide or cultural means. If sorghum seed is not properly treated with seed protectant or safener, preplant and preemergence applications of WARRANT Herbicide will severely injure the crop.

Tank Mixtures: This product may be tank-mixed with the following products for applications in sorghum. Ensure that the specific product being used in the tank mixture is registered for use in sorghum. Read and follow label directions of all products in the tank mixture. The most restrictive label directions apply.

Buctril®, Huskie™, atrazine, bromoxynil, dicamba, 2,4-D, pyrasulfotole

DO NOT exceed 4 quarts (3 lbs acetochlor) per acre per year when making multiple applications.

DO NOT make postemergence surface applications using sprayable fluid fertilizer as the carrier because severe crop injury may occur.

DO NOT graze treated area or feed treated sorghum forage to livestock for 60 days following application of this product.

Application Rates (minimum and maximum range)

SOIL TEXTURAL GROUP	BROADCAST RATE PER ACRE*	
	Less than 1.5% Organic Matter (quarts)	1.5% or More Organic Matter (quarts)
Coarse	1.5 to 2.25	2.0 to 2.5
Medium	1.5 to 2.25	2.0 to 3.0
Fine	1.5 to 2.5	2.25 to 3.0

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

14.0 SOYBEANS

14.1 WARRANT Herbicide for Preplant, At-Planting, or Preemergence Use in Soybeans

When applied preplant, at-planting, or preemergence in soybean, including Roundup Ready Soybeans and Roundup Ready 2 Yield Soybeans, this product will provide preemergence control or reduced competition of the annual weeds listed in the "WEEDS CONTROLLED" section of this label. If weeds are emerged at the time of application, apply a labeled postemergence herbicide to control emerged weeds. Use of a residual herbicide for the control of weeds not listed on this label is recommended. Applications may be made in a tank mixture with the products listed below. Observe all directions for use, precautions, and restrictions on the labeling of the tank mixed postemergence herbicide or residual herbicide.

Approved Application Systems

Ground: Broadcast boom

Aerial: Fixed-wing and helicopter. **Allowed in selected states only - see Aerial Application Equipment, Section 8.2 of this label for additional information.**

Approved Application Methods

Preplant, At-planting or Preemergence Surface

WARRANT Herbicide may be applied preplant, at-planting or preemergence to soybeans at 1.25 to 2 quarts per acre (qts/A) according to the rate table below. The optimum rate of application is 1.5 qts/A. Apply broadcast to the soil surface according to the rate table listed below. Mechanical incorporation is not recommended. This product will not control emerged weeds.

Application of this product with other postemergence or soil applied herbicides may increase the potential for crop injury.

Application of this product followed by conditions that do not favor adequate crop growth or which cause stress (cold, wet soils), or under waterlogged conditions from excessive irrigation or rainfall, may result in crop injury.

DO NOT exceed 4 quarts per acre per year when making a second application, including a postemergence application to soybeans.

Application Rates (minimum and maximum range)

SOIL TEXTURAL GROUP	BROADCAST RATE PER ACRE*	
	Less than 1.5% Organic Matter (quarts)	1.5% or More Organic Matter (quarts)
Coarse	1.25 to 1.6	1.25 to 1.7
Medium	1.25 to 1.7	1.25 to 1.9
Fine	1.25 to 1.9	1.25 to 2.0

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

Tank Mixtures: This product may be tank mixed with the following products when applied preplant, at-planting, or preemergence in soybeans, including Roundup Ready Soybeans and Roundup Ready 2 Yield Soybeans. Ensure that the specific product being used in the tank mixture is registered for application in the specific crop. Read and follow label direction of all products in the tank mixture. The most restrictive label directions apply. The user is responsible for ensuring that the specific application being made is included on the labeling of the tank mixture product being used.

Authority® Assist, Authority® First, Authority® MTZ, Authority® XL, Authority® MAXX, Gramoxone Inteon®, Flexstar®, Prowl®, Reflex®, Roundup Brand Agricultural Herbicides fomesafen, metribuzin, paraquat, pendimethalin

14.2 WARRANT Herbicide for Postemergence Use in Soybeans

This product, when applied postemergence in soybeans, Roundup Ready Soybeans and Roundup Ready 2 Yield Soybeans, as one or two applications, will provide preemergence control or reduced competition of the annual grasses and broadleaf weeds listed in the "WEEDS CONTROLLED" section of this label. If weeds are emerged at time of application, apply a labeled postemergence herbicide with this product to control the emerged weeds. See section 14.4 of this label for recommended tank mix products for postemergence applications in soybeans. Observe the directions for use, precautions and restrictions on the label of the postemergence herbicide.

Approved Application Systems

Ground: Broadcast boom

Aerial: Fixed-wing and helicopter. **Allowed in selected states only - see Aerial Application Equipment section of this label for additional information.**

Approved Application Methods

Postemergence Surface

Apply this product postemergence to soybeans and prior to weed emergence. The application should be made after soybeans are completely emerged but before soybeans reach growth stage R2. Apply this product when crop is small or direct spray to the soil surface to minimize interference of spray by crop. The optimum timing and rate of application is when soybeans are V2-V3 at 1.5 qts/A. Directed applications may be used to increase soil coverage and canopy penetration after soybean growth stage V5. Use rates are defined in the table below. Use the higher rate where heavy weed infestations exist. Weeds emerged at the time of application are not controlled by this product. If weeds are emerged at application, apply a labeled postemergence herbicide with this product to control the emerged weeds or shallowly cultivate or rotary hoe to improve performance. See section 14.4 of this label for recommended tank mix products for postemergence applications in soybeans.

Apply WARRANT Herbicide broadcast over-the-top or directed to the soil surface, according to the rate table listed below. Application made before weeds emerge or after clean cultivation is necessary as this product will not control emerged weeds.

DO NOT exceed 4 quarts (3 lbs. acetochlor) per acre per year when making a second application.

DO NOT make postemergence surface applications using sprayable fluid fertilizer as the carrier because severe crop injury may occur.

DO NOT graze treated area or feed treated soybean forage to livestock following application of this product.

Application Rates (minimum and maximum range)

SOIL TEXTURAL GROUP	BROADCAST RATE PER ACRE*					
	Less than 1.5% Organic Matter (quarts)			1.5% or More Organic Matter (quarts)		
Coarse	1.25	to	1.6	1.25	to	1.7
Medium	1.25	to	1.7	1.25	to	1.9
Fine	1.25	to	1.9	1.25	to	2.0

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

14.3 WARRANT Herbicide plus Roundup Agricultural Herbicides in Roundup Ready Soybeans and Roundup Ready 2 Yield Soybeans

This program may be used postemergence in a tank mixture with a Roundup agricultural herbicide to Roundup Ready Soybeans and Roundup Ready 2 Yield Soybeans. Use postemergence when soybeans are completely emerged until the soybeans reach growth stage R2. Refer to Roundup agricultural herbicide product labels for specific weeds controlled postemergence.

Approved Application Systems

Ground: Broadcast boom

Aerial: Fixed-wing and helicopter. **Allowed in selected states only - see Aerial Application Equipment Section 8.2 of this label for additional information.**

Approved Application Methods

Preplant, At-planting or Preemergence Surface

WARRANT Herbicide may be applied preplant, at-planting or preemergence to the soybeans at 1.25 to 2 quarts per acre (qts/A) according to the rate table below. The optimum rate of application is 1.5 qts/A. Apply broadcast to the soil surface according to the rate table listed below. Mechanical incorporation is not recommended. This product will not control emerged weeds.

Postemergence Surface

This tank mix may be applied after soybeans are completely emerged and until the soybeans reach growth stage R2. The optimum timing and rate of application is when soybeans are V2-V3 at 1.5 qts/A. Directed applications may be used to increase soil coverage and canopy penetration after soybean growth stage V5. Labeled use rates for this tank mixture are defined in the table below. Use the higher rate on larger weeds and where heavy weed infestations exist. This tank mix should be applied when weeds are 2 to 4 inches in height and before the weed height and/or density become competitive with the crop.

For difficult to control weeds such as fall panicum, barnyardgrass, crabgrass, shattercane, broadleaf signalgrass and Pennsylvania smartweed use the higher rates of Roundup agricultural herbicides.

DO NOT make postemergence surface applications using sprayable fluid fertilizer as the carrier because severe crop injury may occur.

AVOID DRIFT. EXTREME CARE MUST BE USED WHEN APPLYING THIS PRODUCT IN A TANK MIXTURE WITH A ROUNDUP AGRICULTURAL HERBICIDE TO PREVENT INJURY TO DESIRABLE PLANTS AND CROPS WHICH DO NOT CONTAIN A GLYPHOSATE TOLERANCE GENE.

DO NOT exceed 4 quarts (3 lbs. acetochlor) per acre per year when making a second application, including a postemergence application.

DO NOT graze treated area or feed treated soybean forage to livestock following application of this product.

Application Rates (minimum and maximum range)

SOIL TEXTURAL GROUP	BROADCAST RATE PER ACRE*			
	WARRANT HERBICIDE (quarts)		ROUNDUP AGRICULTURAL HERBICIDES	
Coarse	1.25	to	1.7	Per Labeled Rate
Medium	1.25	to	1.9	Per Labeled Rate
Fine	1.25	to	2.0	Per Labeled Rate

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

14.4 WARRANT Herbicide Additional Tank-Mixtures for Applications Postemergence to Soybeans (All Types)

This product may be applied in a tank-mixture with the following products **postemergence** to soybeans, including Roundup Ready Soybeans and Roundup Ready 2 Yield Soybeans. Ensure that the specific product being used in the tank mixture is registered for application postemergence (in-crop) to soybeans. Read and follow label directions of all products in the tank mixture. The most restrictive label directions apply. The user is responsible for ensuring that the specific application being made is included on the labeling of the tank mixture product being used.

Arrow[®], Assure[®] II, Basagran[®], Classic[®], Cobra[®], Extreme[®], FirstRate[®], Flexstar[®], Fusilade[®] DX, Fusion[®], Harmony[®] GT XP, Poast[®], Poast Plus[®], Pursuit[®], Pursuit[®] Plus, Raptor[®], Reflex[®], Select[®], Select Max[®], Synchrony[®] STS, Targa[®], Ultra Blazer[®], acifluorfen, bentazon, chlorimuron ethyl, clethodim, cloransulam-methyl, fenoxaprop-P-ethyl, fluaizifop-P, fomesafen, imazamox, imazethapyr, lactofen, quizalofop-P-ethyl, sethoxydim, thifensulfuron-methyl

15.0 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.

WARRANT, Roundup, Roundup Ready, Roundup Ready Plus, Rowel and Monsanto and Vine Design are trademarks of Monsanto Technology LLC. All other trademarks are the property of their respective owners.

EPA Reg. No. 524-591

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

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