

62719-371

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

MAR 13 2003

OFFICE OF  
PREVENTION, PESTICIDES  
AND TOXIC SUBSTANCES

Ms. Barbara J. Kaminski  
Dow AgroSciences, LLC  
9330 Zionsville Road  
Indianapolis, IN 46268

Dear Ms. Kaminski:

Subject: FulTime (Revise First Aid Statements and Other Changes)  
EPA Registration No. 62719-371  
Your Application Dated December 16, 2002

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act as amended is acceptable provided you make the following changes before you release the product for shipment.

1. At the beginning of the list of Personal Protective Equipment (PPE) within the Precautionary Statements, add the statements, "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." In addition, revise the requirement for "waterproof gloves" to a requirement for "chemical-resistant gloves made of any waterproof material such as polyethylene or polyvinyl chloride.
2. Within the list of PPE for early re-entry in the Agricultural Use Requirements box, revise the requirement for "waterproof gloves" to a requirement for "waterproof gloves made of any waterproof material."
3. Add "Pesticide" to "Storage" to read "Pesticide Storage".

Please submit three(3) copies of your final printed labeling incorporating the above changes before you release the product for shipment. Amended labeling supercedes all previously accepted ones. A stamped copy of labeling is enclosed for your records.

Sincerely,

*James A. Tompkins for*  
James A. Tompkins  
Product Manger 25  
Herbicide Branch  
Registration Division (7505C)

(Base Label)

**RESTRICTED USE PESTICIDE**  
**Due to Ground and Surface Water Concerns and Oncogenicity**

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

This product is a restricted use herbicide due to ground and surface water concerns and oncogenicity concerns. Users must read and follow all precautionary statements and instructions for use in order to minimize potential for atrazine to reach ground and surface water.

(logo) Dow AgroSciences

# FullTime\*

**A preemergence herbicide for control of annual grass and broadleaf weeds in field corn, production seed corn, silage corn, and popcorn**

**Active Ingredients:**

acetochlor: 2-chloro-2'-methyl-6'-ethyl-N-ethoxymethylacetanilide .....	24.8%
atrazine: [2-chloro-4-(ethylamino)-6-(isopropylamino)-s-triazine] and related triazines .....	16.6%
Inert Ingredients: .....	58.6%
Total .....	100.0%

ACCEPTED  
with COMMENTS  
In EPA Letter Dated:

MAR 13 2003  
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, the pesticide registered under EPA Reg. No. 62919-371

Contains 2.4 pounds acetochlor and 1.6 pounds atrazine active ingredient per gallon.

**Keep Out of Reach of Children**

## CAUTION      PRECAUCION

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

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### Precautionary Statements

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#### Hazards to Humans and Domestic Animals

**Harmful If Absorbed Through Skin • Causes Moderate Eye Irritation**

**Avoid contact with eyes, skin, or clothing. Wear long-sleeved shirt and long pants, socks and shoes, and waterproof gloves. Wash thoroughly with soap and water after handling.**

#### Personal Protective Equipment (PPE)

**Applicators and other handlers must wear:**

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately

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from other laundry.

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

### **User Safety Recommendations**

#### **Users should:**

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- 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.

### **First Aid**

**If on skin or clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**If in eyes:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-992-5994 for emergency medical treatment information.

### **Environmental Hazards**

Atrazine leaches readily and accepted label rates have been found to result in contamination of water supplies by way of groundwater. Therefore, users are advised to avoid use of atrazine in well-drained soils, particularly in areas having high groundwater tables.

Groundwater contamination may be reduced by diking and flooring of permanent liquid bulk storage sites with an impermeable material.

This pesticide is toxic to fish and aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Runoff and drift from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwaters.

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

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.

### **Physical and Chemical Hazards**

**Do not use or store near heat or open flames.**

### **Agricultural Use Requirements**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to the label booklet under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

**Refer to label booklet for Directions for Use including Storage and Disposal.**

**Notice:** Read the entire label. Use only according to label directions. **Before using this product, read**

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**Warranty Disclaimer, Inherent Risks of Use and Limitation of Remedies at end of label booklet. If terms are not acceptable, return at once unopened.**

In case of emergency endangering health or the environment involving this product, call 1-800-992-5994. If you wish to obtain additional product information, visit our web site at [www.dowagro.com](http://www.dowagro.com).

Agricultural Chemical: Do not ship or store with food, feeds, drugs or clothing.

EPA Reg. No. 62719-371

EPA Est. \_\_\_\_\_

\*Trademark of Dow AgroSciences LLC

**Dow AgroSciences LLC Indianapolis, IN 46268 U.S.A.**

## **Herbicide**

**Net Contents** \_\_\_\_\_

(Label Booklet)

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## Herbicide

Net Contents \_\_

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### Physical and Chemical Hazards

Do not use or store near heat or open flames.

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### Directions for Use

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It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read all Directions for Use carefully before applying.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

### Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

**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 over long-sleeved shirt and long pants
- Waterproof gloves
- Socks and chemical resistant footwear

### Storage and Disposal

**Prohibitions:** Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container.

**Storage:** Keep container tightly closed when not in use. Do not store near seeds, fertilizers, or foodstuffs. Can be stored at temperatures as low as minus 30°F.

**Pesticide Disposal:** Rinse spray equipment. Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

**Container Disposal:** Triple rinse (or equivalent); then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

**For Bulk and Mini-Bulk Containers**

**Container Disposal:** Reseal container and offer for reconditioning, or triple rinse (or equivalent) and offer for recycling or reconditioning, or clean in accordance with manufacturer's instructions.

**Container Precautions:** Before refilling, inspect thoroughly for damage such as cracks, punctures, bulges, dents, abrasions, and damaged or worn threads on closure devices.

**For Mini-Bulk Containers: Refill Only With FulTime herbicide.** The contents of this container cannot be completely removed by cleaning. Refilling with materials other than FulTime will result in contamination and may weaken container.

- After filling and before transporting, check for leaks.
- Do not refill or transport damaged or leaking container.
- Circulation before dispensing is required.

**CONTAINER IS NOT SAFE FOR FOOD, FEED, OR DRINKING WATER!**

### General Information

FulTime\* herbicide is intended for preplant, preemergence, or early postemergence use in corn. Use of this product in corn is limited to field corn, production seed corn, silage corn, and popcorn. Do not apply this product to any crop other than corn.

FulTime is a unique combination of the herbicides acetochlor and atrazine plus the antidote or safener dichlormid. While the acetochlor provides weed control, the dichlormid safens corn against herbicide injury. FulTime may be applied to the surface or incorporated into the top 1-2 inch layer of soil. It is recommended for control alone, or in tank mix combinations as indicated, for the weeds listed in the "Target Weeds" section of these use directions. FulTime controls weeds by interfering with normal germination and seedling development. FulTime does not control established or germinated weeds present at application.

### **General Use Precautions and Restrictions**

- Do not apply to the following soils if groundwater depth is 30 feet or less: sand with less than 3% organic matter; loamy sand with less than 2% organic matter; or sandy loam with less than 1% organic matter.
- FulTime should not be used on corn seed stock such as Breeders, Foundation, or Increase.
- Do not apply this product using aerial application equipment.
- **Chemigation:** Do not apply this product through any type of irrigation system.
- Do not use flood irrigation to apply or incorporate this product.
- Do not contaminate irrigation water used for crops other than corn or water used for domestic purposes.
- Do not apply FulTime before pre-irrigation in irrigated areas.
- Applied according to directions and under normal growing conditions, FulTime will not harm the treated crop. During germination and early stages of growth, extended periods of unusually cold and wet or hot and dry weather, insect or plant disease attack, carryover pesticide residues, the use of certain soil applied systemic insecticides, improperly placed fertilizers or soil insecticides may create abnormal conditions that weaken crop seedlings. FulTime used under these abnormal conditions could result in crop injury.
- 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 the 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 at a minimum 110% of the capacity of the largest pesticide container or application equipment on the pad. A pad that is covered by a roof of sufficient size to completely exclude precipitation from contact with the pad shall have a minimum containment capacity of 100% of the capacity of the largest pesticide container or application equipment on the pad. Containment capacities as described above shall be maintained at all times. The above-specified minimum containment capacities do not apply to vehicles when delivering pesticide shipments to the mixing/loading site. States may have in effect additional requirements regarding wellhead setbacks and operational containment.

- 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 natural or impounded lakes and reservoirs. This product may not be applied by ground within 66 feet of the points where field surface water runoff enters perennial or intermittent streams and rivers or within 200 feet around natural or impounded lakes and reservoirs. If this product is applied to highly erodible land, the 66-foot buffer or setback from runoff entry points must be planted to crop, seeded with grass or other suitable crop.
- **Tile-Terraced Fields Containing Standpipes**  
To ensure protection of surface water from runoff through standpipes and tile outlets in terraced fields, one of the following options may be used:
  1. Do not apply this product within 66 feet of standpipes in tile-outletted terraced fields.
  2. Apply this product to the entire tile-outletted terraced field and immediately incorporate it to a depth of 2-3 inches in the entire tile-outletted terraced field.
  3. Apply this product to the entire tile-outletted terraced field under a no-till practice only when high crop residue management practices are used. High crop residue management practice is described as a crop management practice where little or no crop residue is removed from the field during or after crop harvest.
- Product must be used in a manner that will prevent back siphoning in wells, spills or improper disposal of excess pesticide, spray mixtures or rinsates.
- Do not apply under conditions that favor runoff or wind erosion of soil containing this product to nontarget 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 nontarget crops unless at least ½ inch of rainfall has occurred between application and the first irrigation.
- Do not apply when wind conditions favor drift to nontarget sites. To minimize spray drift to nontarget 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 mph). Do not apply when wind velocity exceeds 15 mph. Avoid application when gusts approach 15 mph.
- Low humidity and high temperatures increase the likelihood of spray drift to sensitive areas. Avoid spraying during conditions of low humidity and/or high temperatures. Do not apply during inversion conditions.
- **Maximum Application Rate:** The maximum application rate for FulTime on corn is 5 qt per acre per year. This amount of product is equal to 3 lb per acre of acetochlor active ingredient (ai) and 2 lb per acre of atrazine ai.

**Atrazine Use Limitations**

Failure to strictly follow label directions may result in exceeding the maximum annual atrazine use rates as stipulated by the Environmental Protection Agency.

**(All Soil Applications Prior to Corn Emergence):**

- **On highly erodible soils, as defined by the Natural Resources Conservation Service (NRCS):**  
If conservation tillage is practiced leaving at least 30% of the soil covered by plant residues at planting, do not exceed 2 pounds of atrazine active ingredient (ai) per acre as a broadcast spray. If the soil coverage of plant residue is less than 30%, do not exceed 1.6 pounds ai per acre.
- **On Soils Not Highly Erodible:** Do not exceed 2 pounds of atrazine ai per acre as a broadcast spray.

**(Postemergence Application):**

- If no atrazine was applied prior to corn emergence, up to a maximum of 2 pounds lb of atrazine ai may be applied broadcast. If a postemergence application is required following an earlier application of atrazine, the total atrazine ai applied cannot exceed 2.5 pounds per acre per calendar year.

**Note:** Where there are state/local requirements regarding atrazine use (including lower maximum rates and/or higher setbacks) which are different from this label, these more restrictive/protective requirements must be followed.

- **Resistance Management:** This product contains atrazine and thus may not control weeds that are known or suspected to be triazine tolerant or "resistant." Following many years of continuous use of atrazine or chemically related (triazine) products, biotypes of certain weeds may develop herbicide tolerance and may no longer be effectively controlled. Where triazine tolerance (resistance to control) is known or suspected and weeds controlled by atrazine are expected to be present along with "resistant" biotypes, it is recommended that atrazine be used in combination or in sequence with a registered non-triazine herbicide that is effective against these weeds. If only "resistant" biotypes are expected to be present, use an effective non-triazine herbicide that is registered for use on corn.

**Rotational Crop Restrictions:**

When tank mixing with other herbicides, follow the most restrictive crop rotation guidelines on the label of each product used. The following rotational crops may be planted as indicated:

Rotational Crop(1)	Timing or Interval
corn	0 months after application
sorghum, soybeans (2), tobacco	Spring following application
wheat	15 months after application

Numbers within parentheses (-) in the table refer to Specific Rotational Crop Requirements below.

**Specific Rotational Crop Requirements:**

- (1) If crop treated with FulTime is lost, corn may be replanted immediately. Do not make a second application of FulTime. Do not rotate to crops other than corn, soybeans, sorghum, tobacco and wheat in the year following application. Do not apply FulTime after June 10, unless only corn will be planted the following year.
- (2) Injury to soybeans planted in the year following application of this product may occur as a result of carryover on soils with a calcareous surface layer and relatively high pH in north central and northwest Iowa, south central and southwest Minnesota, northern Nebraska and southeast South Dakota.

**Application Directions - Corn**

**Carriers and Spray Volume**

Either water or liquid fertilizers such as solutions, slurries or suspensions may be used as liquid carriers.

If fluid fertilizers are used, a physical compatibility with these must be done **before combining** in the spray tank. See Appendix I for details of the compatibility testing procedure. Even if FulTime is physically compatible with a fluid fertilizer, constant agitation is necessary to maintain a uniform mixture during application.

Apply in a minimum broadcast spray volume of 10 gallons per acre using boom equipment for ground applications. Use low-pressure nozzles designed for application of herbicides. Use sufficient operating pressure to produce the desired spray pattern for the nozzle (15 to 40 psi) and follow manufacturer's recommendations for nozzle spacing and operating height to ensure uniform spray distribution at the soil surface. Use 50-mesh or coarser screens, if needed.

### Adding to Spray Tank

The spray tank must be clean, thoroughly rinsed, and decontaminated before adding either FulTime alone or with tank mix combinations. If water is used as the carrier, use clean water. All return lines to the spray tank must discharge below the liquid level.

**Used Alone:** When FulTime is used alone, add the recommended amount to the spray tank when the tank is half filled, then add the rest of the water or fluid fertilizer. Provide sufficient agitation to ensure thorough mixing and to maintain a uniform spray mixture during application.

**Tank Mixed:** If a tank mixture is used, it is recommended that a compatibility test be done before actual tank mixing. See Appendix I for details on the procedure for such a test.

### Water Carrier

Allow time for complete dispersion/mixing before adding another product to the spray mixture. Add products to the tank mixture in the following order:

- To start, add one-half of the required amount of water to the spray tank. Begin agitation.
- Products in water soluble packaging. Important: Allow time for complete dispersion.
- Wettable powders or dry flowables (slurry if recommended by tank mix product label)
- Liquid flowables
- Emulsifiable concentrates
- FulTime or other suspension concentrates
- Urea ammonium nitrate (UAN) or ammonium sulphate (AMS), if required.
- Compatibility agent if needed
- Soluble liquids such as glyphosate, paraquat, 2,4-D amine
- Crop oil concentrate (COC) or nonionic surfactant (NIS), if required
- Finish filling spray tank to required spray volume

### Liquid Fertilizer Carrier

Allow time for complete dispersion/mixing before adding another product to the spray mixture. Add products to the tank mixture in the following order:

- To start, add one-half of the required amount of liquid fertilizer to the spray tank. Begin agitation.
- Compatibility agent if needed
- Products in water soluble packaging. Important: Products in water soluble packaging must be premixed with water (slurried) prior to addition to the spray tank.
- Wettable powders or dry flowables (slurry if recommended by tank mix product label)
- Liquid flowables
- Emulsifiable concentrates
- FulTime or other suspension concentrates
- Ammonium sulphate (AMS), if tank mixing with glyphosate.
- Soluble liquids such as glyphosate, paraquat, 2,4-D amine
- Crop oil concentrate (COC) or nonionic surfactant (NIS), if required
- Finish filling spray tank to required spray volume.

**Note:** For all tank mixtures, maintain agitation during mixing and throughout application to ensure spray mixture remains uniformly suspended.

## Application Timing and Methods

For the optimum period of effective weed control during the time most critical to corn production, preplant applications of FulTime should occur as close as possible to planting. Preemergence applications should occur as close as possible to planting, but prior to weed emergence. Postemergence applications should occur prior to weed emergence or in tank mix combination with a product that controls emerged weeds.

**Early Preplant:** On medium and fine textured soils (see Table 1), FulTime may be applied up to 40 days prior to planting.

**Preplant Incorporation:** FulTime and certain tank mixes may be mechanically incorporated in the top 2 inches of the soil with field cultivators, discs, or spring tooth harrows at any time within 14 days prior to planting. Improper incorporation, excessive crop residues, or poor soil tillage may result in erratic, streaked or otherwise unsatisfactory weed control. Do not mix FulTime deeper than 2" into the soil and avoid moving or shaping soil after incorporation.

**Preemergence Surface:** FulTime and certain tank mixes may be applied to the soil surface as a broadcast or banded application. Precipitation or sprinkler irrigation of at least 0.25 inch is required to bring FulTime into contact with germinating weed seeds. If rain or sprinkler irrigation does not occur within 7 days after application, weed control may be improved by using a rotary hoe, or similar equipment, to incorporate the herbicide. Incorporation equipment should be run at a shallow depth to avoid disturbance of germinating corn seed. Erratic weed control resulting from exposure of untreated soil may occur if surface soil is moved or reshaped after incorporation.

**Postplant-Preemergence:** FulTime may be applied immediately after planting but prior to corn emergence. If rain or sprinkler irrigation does not occur within 7 days after application, weed control may be improved by using a rotary hoe, or similar device, to shallowly incorporate the herbicide. Do not disturb germinating corn seed. Erratic weed control resulting from exposure of untreated soil may occur if surface soil is moved or reshaped during incorporation.

**Banding Preemergence:** FulTime may be applied in a 10 to 14 inch band after corn planting but prior to corn emergence. If rain or sprinkler irrigation does not occur within 7 days after application, weed control may be improved by using a rotary hoe or similar device to incorporate the herbicide. Do not disturb the germinating corn seed. Erratic weed control resulting from exposure of untreated soil may occur if surface soil is moved or reshaped during incorporation.

**Early Postemergence:** FulTime may be applied early postemergence to corn up to 11 inches tall. Applications must be made prior to weed seedling emergence or in a tank mix combination that controls the emerged weeds. Read and follow restrictions and directions on tank mix product labels.

**Sprinkler Irrigation:** Do not apply FulTime by sprinkler irrigation. Use a sprinkler system only to incorporate FulTime after application. After FulTime has been applied, a sprinkler irrigation system set to deliver 0.25 to 0.75 inch of water per acre may be used to incorporate the product. Using more than 0.75 inch of water could result in reduced performance. On sandy soil low in organic matter, use no more than 0.5 inch of water. Do not use flood irrigation to apply or incorporate FulTime.

### Cultivation

Cultivation should be delayed as long as possible. If weeds develop, a shallow cultivation or rotary hoeing will generally result in improved weed control. If FulTime was incorporated, cultivate less than one-half the depth of incorporation.

If cultivation is necessary due to soil crusting, compaction, or escaped weeds adjust equipment to run shallow and minimize soil movement. This will decrease the possibility of diluting or moving the herbicide from the weed control zone.

### Soil Texture and Organic Matter

The use rate of FulTime is determined by a combination of two factors, soil texture and organic matter, which must be determined prior to application. Different soil textures are grouped into three textural classes (coarse, medium and fine) as outlined in Table 1. Soil texture and organic matter content of the soil may be determined from soil survey information and/or by laboratory analysis and must be known in order to select the proper rate from Table 2.

**Table 1: Soil Texture Groupings for FulTime Use Rate Selection.**

Coarse	Medium	Fine
Sand Loamy Sand Sandy Loam	Loam Silt Silt Loam Sandy Clay Loam	Silty Clay Loam Silty Clay Sandy Clay Clay Loam Sandy Clay Loam Clay

### Use Rates in Conventional Tillage Systems

The use rates in Table 2 are for preplant incorporated, preemergence, and early postemergence applications (see Application Timing and Methods). Consult Table 3 if no-till applications are made or application is made more than 14 days prior to planting under conventional tillage.



17 8 24

**Table 2: Use Rates for FulTime by Soil Texture and Organic Matter Content in Conventional Tillage Systems.**

Soil Texture	Soil Organic Matter Content	
	Less than 3%	3% or Greater
Coarse	2.5 - 2.7 qt/acre	2.7 - 3.0 qt/acre
Medium	2.7 - 3.3 qt/acre	3.0 - 3.3 qt/acre
Fine	3.0 - 3.5 qt/acre	3.0 - 5.0 qt/acre <sup>1</sup>

<sup>1</sup> On highly erodible soils with less than 30% plant residue, do not apply more than 4.0 quarts per acre.

**Rate Ranges:** Use a rate in the lower end of the rate range if weed infestation is light and/or soil organic matter is less than 3%. Use a rate in the higher end of the rate range if the weed infestation is heavy and/or soil organic matter is greater than 3%.

**Use Rates for Reduced Tillage Systems**

Application can take place up to 40 days before planting or after planting. Optimal weed control will be obtained when applications are made as close to planting as possible, but before weeds emerge. In reduced or no-till systems, it is recommended that a burndown herbicide such as paraquat (Gramoxone) or glyphosate (Glyphomax, Roundup or Touchdown) or 2,4-D be tank mixed with FulTime if emerged weeds are present at application.

**Table 3: Use Rates for FulTime by Soil Texture in Reduced or No-Till Systems.<sup>1</sup>**

Soil Texture	Time Of Application Relative To Planting		
	Greater Than 14 Days Before Planting	Less Than 14 Days Before or After Planting But Prior to Emergence	After Planting and/or Emergence
Coarse	Do not apply more than 14 days before planting in coarse textured soils	2.5 - 3.0 qt/acre	2.5 - 3.0 qt/acre
Medium	2.7 - 4.0 qt/acre	2.7 - 3.3 qt/acre	2.7 - 3.3 qt/acre
Fine	3.3 - 5.0 qt/acre <sup>2</sup>	3.0 - 5.0 qt/acre <sup>2</sup>	3.0 - 4.0 qt/acre

<sup>1</sup> Rates are for single applications. Split applications of FulTime may be used by applying at least 60% of the recommended rate up to 30 days before planting and the remaining 40% at planting.

<sup>2</sup> On highly erodible soils with less than 30% plant residue, do not apply more than 4.0 quarts per acre.

**Band Applications**

This product may be applied as a band treatment. Use the following formulas below to determine the appropriate rate and volume per treated acre.

$$\begin{array}{l} \text{Band width in inches} \\ \text{-----} \end{array} \times \begin{array}{l} \text{Broadcast rate} \\ \text{per acre} \end{array} = \begin{array}{l} \text{Band rate per} \\ \text{treated acre} \end{array}$$

$$\begin{array}{l} \text{Band width in inches} \\ \text{-----} \end{array} \times \begin{array}{l} \text{Broadcast volume} \\ \text{per acre} \end{array} = \begin{array}{l} \text{Band volume} \\ \text{per treated acre} \end{array}$$

**Weeds Controlled**

FulTime applied as directed in this label will control or partially control the weeds listed in Table 4. Additional weeds may be controlled with tank mixes. See the "Tank Mix Combinations" section for recommended tank mix combinations. Always consult the tank mix product labels for specific use rates and use directions.

**Table 4: Weeds Controlled or Partially Controlled by FulTime at Recommended Use Rates.**

<b>Grasses and Sedges</b>	<b>C = Control PC = Partial Control</b>	<b>Broadleaves</b>	<b>C = Control PC = Partial Control</b>
barnyardgrass	C	beggarweed, Florida	C
crabgrass spp.	C	carpetweed	C
crowfootgrass	C	cocklebur (2)	PC
cupgrass, southwestern	C	galinsoga	C
cupgrass, woolly	PC	jimsonweed	C
foxtail, giant	C	kochia	PC
foxtail, green	C	lambsquarters, common	C
foxtail, robust (purple, white)	C	morningglory spp.	C
foxtail, yellow	C	nightshade, black	C
goosegrass	C	nightshade, hairy	C
johnsongrass, seedling	PC	pigweed, redroot	C
millet, foxtail	C	purslane, common	C
millet, wild proso	PC	pusley, Florida	C
nutsedge, yellow (1,2)	C	ragweed, common	C
panicum, browntop	C	ragweed, giant	PC
panicum, fall	C	sicklepod	C
panicum, Texas (3)	C	sida, prickly	C
rice, red	C	smartweed spp.	C
sandbur, field	PC	velvetleaf (2)	PC
shattercane	PC	waterhemp, tall	C
signalgrass, broadleaf (3)	C	waterhemp, common	C
sprangletop, red	C		
witchgrass	C		

- (1) Control of yellow nutsedge requires a minimum of 3.5 quarts per acre. Incorporation will improve control.
- (2) Activity may be reduced under dry conditions or when early preplant applications are made more than 14 days before planting. Sequential herbicides or application of additional atrazine may be needed for complete control.
- (3) Best control is achieved when FulTime is applied within 5 days of planting and rainfall occurs shortly after application or mechanical incorporation is used to activate the herbicide. If rainfall does not occur within 7 days after application, shallow cultivation will enhance activity. Excessive rainfall after application may reduce control. Under adverse weather conditions and/or heavy infestations, a cultivation or follow-up herbicide may be needed.

**FulTime Tank Mix Combinations**

Additional weeds may be controlled with tank mixes. Tank mix combinations may be used in either conventional, reduced, or no-till systems and may be applied by the same methods and at the same application timing as FulTime unless otherwise specified in the tank mix product label.

FulTime may be tank mixed with any other herbicide labeled for use on corn provided the compatibility of

the tank mix is verified by a jar test and tank mixing with FulTime is not prohibited by the label of the tank mix product. The compatibility of a tank mixture can be determined by mixing the ingredients of the herbicide mixture in their relative proportions in a glass jar as described for fluid fertilizer mixtures in Appendix I by substituting water for fluid fertilizer. Refer to the label of the tank mix product for applicable use directions, precautions and limitations, including additional weeds controlled. Do not exceed application rates on the respective product labels. Do not tank mix with another pesticide product that contains the same active ingredient as this product unless the label of either tank mix partner specifies the maximum dosages that may be used.

**Note:** This product contains atrazine and may not control weeds that are known or suspected to be triazine "resistant."

**When tank mixing FulTime with atrazine, do not exceed the maximum allowable rate of atrazine in your county or state. In some atrazine management areas, atrazine is more restricted. Consult your county extension office or state university for further information.**

### Use of Spray Adjuvants

FulTime is a preemergence herbicide for which spray adjuvants have little or no influence on performance. However, several herbicides used in tank mixtures with FulTime require use of adjuvants to aid in the burndown of emerged weeds. Use only those adjuvants recommended on the label of the tank mix product and approved for use in growing crops.

**Note:** Do not use liquid fertilizer as the carrier when FulTime is applied postemergence to corn as severe injury may result. The addition of liquid fertilizer as an adjuvant in tank mixes of FulTime applied postemergence to corn under conditions of environmental stress may result in significant crop injury and should be avoided if the risk of crop injury is unacceptable.

### Preemergence Tank Mix Combinations

#### Conventional Tillage (FulTime Plus):

Tank Mix Herbicide †	Comments
Atrazine 4L	<ul style="list-style-type: none"> <li>This tank mix may be applied preplant surface, preplant incorporated, preemergence. If emerged weeds are greater than 1.5 inches tall at the time of application, add an appropriate postemergence herbicide</li> <li>Consider this tank mix in areas with longer growing seasons, high rainfall or heavy broadleaf weed pressure.</li> </ul>
Balance Pro	<ul style="list-style-type: none"> <li>This tank mix is not labeled in all states. Refer to label for Balance Pro for applicable directions for use, geographic and other restrictions</li> <li>For use in field corn only</li> <li>Refer to the use rates section for minimum use rates for FulTime</li> </ul>
Hornet WDG	<ul style="list-style-type: none"> <li>Tank mix with 3.0 – 4.0 oz/acre Hornet* WDG herbicide to provide consistent control of velvetleaf, lambsquarters, pigweed species, waterhemp and triazine resistant varieties of these species. Also provides improved control of cocklebur, common ragweed, giant ragweed, common sunflower and jimsonweed.</li> </ul>
Princep 4L	<ul style="list-style-type: none"> <li>Provides improved control of crabgrass and fall panicum</li> </ul>

Python WDG	<ul style="list-style-type: none"> <li>Tank mix with 0.8 – 1.0 oz/acre Python* WDG herbicide to provide consistent control of velvetleaf, lambsquarters, pigweed species, waterhemp and triazine resistant varieties of these species.</li> </ul>
Surpass EC	<ul style="list-style-type: none"> <li>Tank mix with 1 pt/acre of Surpass* EC herbicide for enhanced grass and nutsedge control</li> </ul>

† Different formulations of herbicide products listed may be tank mixed with FulTime. Prior to use, perform a compatibility test and check the label of the tank mix product label for application rates, applicable use directions, precautions and limitations.

**Reduced or No-Tillage Corn (FulTime Plus):**

Tank Mix Herbicide †	Comments
Atrazine 4L	<ul style="list-style-type: none"> <li>This tank mix may be applied preplant surface, preplant incorporated, preemergence. If emerged weeds are greater than 1.5 inches tall at the time of application, add an appropriate postemergence herbicide</li> <li>Consider this tank mix in areas with longer growing seasons, high rainfall or heavy broadleaf weed pressure.</li> </ul>
Balance Pro	<ul style="list-style-type: none"> <li>This tank mix is not labeled in all states. Refer to label for Balance Pro for applicable directions for use, geographic and other restrictions</li> <li>For use in field corn only</li> <li>Refer to the use rates section for minimum use rates for FulTime</li> </ul>
Banvel/Clarity Marksman	<ul style="list-style-type: none"> <li>Apply preplant or preemergence in reduced/ no-till systems for burndown of existing weeds</li> </ul>
Glyphomax Plus, Roundup UltraMAX, Touchdown	<ul style="list-style-type: none"> <li>Apply preplant for burndown of existing weeds</li> <li>Weeds less than 6 inches tall are easiest to control with burndown herbicides applied in combination with FulTime.</li> <li>Always add ammonium sulphate (AMS) to tank mixes prior to addition of glyphosate (8.5 to 17 lb per 100 gal of spray).</li> </ul>
Gramoxone Max	<ul style="list-style-type: none"> <li>Controls annuals and suppresses perennials</li> </ul>
Pendimax* / Prowl	<ul style="list-style-type: none"> <li>Apply preemergence to early postemergence (up to 3" tall corn) but before weeds are more than 1" tall.</li> </ul>
Princep 4L	<ul style="list-style-type: none"> <li>For improved crabgrass or fall panicum control</li> </ul>
Surpass EC	<ul style="list-style-type: none"> <li>For enhanced grass and nutsedge control</li> </ul>
2,4-D	<ul style="list-style-type: none"> <li>Apply preplant for control of existing weeds</li> </ul>

† Different formulations of herbicide products listed may be tank mixed with FulTime. Prior to use, perform a compatibility test and check the label of the tank mix product label for application rates, applicable use directions, precautions and limitations.

**Postemergence Tank Mix Combinations**

FulTime may be applied before, with, or following the use of one or more of the following herbicides: Accent, Accent Gold, Aim EW, atrazine, Banvel, Basis, Basis Gold, Beacon, Bladex, Buctril, Buctril/atrazine, Clarity, Distinct, Exceed, Hornet WDG, Liberty, Lightning, Marksman, Peak, Permit, Poast (Plus and HC), Princep, Pendimax, Prowl, Pursuit, Shotgun, Spirit and Steadfast. Refer to the other product label(s) for applicable directions for use, precautions and restrictions, and a weeds controlled. FulTime may be tank mixed with any postemergence product approved for use on corn unless it is prohibited by the tank mix product label.

When tank mixing, refer to the label of the tank mix product and follow additional use directions in the following table: **FulTime can be applied to corn up to 11" tall.**

**Postemergence Tank Mixes (FulTime Plus):**

Tank Mix Herbicide	Rate	Comments
Accent Gold WDG	3.5 oz/acre	<ul style="list-style-type: none"> <li>Always add crop oil concentrate at 1% v/v. An ammonium nitrogen fertilizer (AMS or UAN) is also recommended.</li> </ul>
Hornet WDG	2-5 oz/acre	<ul style="list-style-type: none"> <li>Always add NIS at 0.25% v/v or COC at 1% v/v.</li> </ul>
Aim EW	0.5 oz/acre	<ul style="list-style-type: none"> <li>Always add a NIS at 0.25% v/v.</li> </ul>
Banvel Clarity Marksman	0.5 - 1.0 pt/acre 0.5 - 1.0 pt/acre 2 - 3.5 pt/acre	<ul style="list-style-type: none"> <li>Apply early postemergence up to 8" tall corn on all soils. If grasses are more than 2- leaf stage, combine with another herbicide to control these weeds.</li> </ul>
Buctril Buctril/atrazine Shotgun	1.5 pt/acre 2.0 pt/acre 2 - 3 pt/acre	<ul style="list-style-type: none"> <li>Refer to tank mix product labels for applicable use directions, precautions and restrictions.</li> </ul>
Atrazine	0.5 - 2.0 lb ai/acre	<ul style="list-style-type: none"> <li>Apply preplant surface, preplant incorporated, preemergence or early postemergence (up to 8" tall corn). If emerged weeds are greater than 1.5 inches tall at the time of application, add an appropriate postemergence herbicide.</li> <li><b>Note:</b> The maximum atrazine application rate per year for corn is 2.0 lb active if applied only postemergence or 2.5 lb active if pre- and postemergence applications are made.</li> </ul>
Distinct	4.0 - 6.0 oz/acre	<ul style="list-style-type: none"> <li>Always add a NIS at 0.25% v/v and 1.25% UAN.</li> <li>May be applied to corn up to 10 inches tall.</li> </ul>
Exceed	1.0 oz/acre	<ul style="list-style-type: none"> <li>Always add crop oil concentrate at 1% v/v.</li> <li>See label for Exceed for geographic restrictions.</li> </ul>
Liberty	16 - 28 oz/acre	<ul style="list-style-type: none"> <li><b>For use on liberty tolerant corn only.</b> Apply to grass and broadleaf weeds up to 6 inches tall. Do not use additional surfactant.</li> </ul>
Lightning	1.28 oz/acre	<ul style="list-style-type: none"> <li><b>For use on Clearfield corn only.</b> Use NIS at 25%v/v and liquid nitrogen fertilizer at 1 - 2 qt per acre or ammonium sulfate at 2.5 lb per acre.</li> </ul>
Pendimax / Prowl	1.8 - 3.6 pt/acre	<ul style="list-style-type: none"> <li>Apply preemergence or apply early postemergence to corn up to 3" tall, but before weeds are more than 1" tall.</li> </ul>
Princep	1.0 - 3.0 lb ai/acre	<ul style="list-style-type: none"> <li>May be applied preplant surface, preplant incorporated, preemergence to corn.</li> </ul>
Pursuit 2.5L Pursuit 70DG	4.0 fl oz/acre 1.4 fl oz/acre	<ul style="list-style-type: none"> <li>Use only on <b>Clearfield</b> varieties.</li> <li>Apply preplant incorporated, preplant surface, preemergence or early postemergence to weeds up to 3 inches tall.</li> </ul>
Resource	4.0 - 6.0 oz/acre	<ul style="list-style-type: none"> <li>Apply to weeds less than 5 inches tall. Add a crop oil concentrate at 1 - 2 pt/acre and either 28% nitrogen at 2% v/v or ammonium sulfate at 2.5 lb/acre. May cause some burn or spotting of corn leaves.</li> </ul>

Spirit	1.0 oz/acre	<ul style="list-style-type: none"> <li>• Always add COC at 1% v/v.</li> <li>• See label for Spirit for geographic restrictions.</li> </ul>																
2,4-D Ester	See Label	<ul style="list-style-type: none"> <li>• Apply preplant surface or preemergence to control emerged broadleaf weeds in corn.</li> </ul>																
Accent 75WDG Beacon 75WDG Basis Steadfast	1/4 - 2/3 oz/acre 0.76 oz/acre 1/4 - 2/3 oz/acre 0.75 oz/acre	<ul style="list-style-type: none"> <li>• Minimum use rates for FulTime (qt/acre):  <table border="1"> <tr> <td>Soil</td> <td>&lt;3%OM</td> <td>3-7%OM</td> <td>&gt;7%OM</td> </tr> <tr> <td>Coarse</td> <td>2.0</td> <td>2.0</td> <td>2.5</td> </tr> <tr> <td>Medium</td> <td>2.0</td> <td>2.0-2.5</td> <td>2.5-3.0</td> </tr> <tr> <td>Fine</td> <td>2.0</td> <td>2.0-2.5</td> <td>2.5-3.0</td> </tr> </table> </li> <li>• Always add NIS at .25% (v/v). In addition, if applied under dry conditions, add 4% (v/v) clear liquid fertilizer.</li> <li>• Banvel, Clarity, Marksman, Buctril, Buctril/atrazine may be added to this mixture to provide burndown and residual control of broadleaf weeds.</li> </ul>	Soil	<3%OM	3-7%OM	>7%OM	Coarse	2.0	2.0	2.5	Medium	2.0	2.0-2.5	2.5-3.0	Fine	2.0	2.0-2.5	2.5-3.0
Soil	<3%OM	3-7%OM	>7%OM															
Coarse	2.0	2.0	2.5															
Medium	2.0	2.0-2.5	2.5-3.0															
Fine	2.0	2.0-2.5	2.5-3.0															
Basis Gold	14.0 oz/acre	<ul style="list-style-type: none"> <li>• Minimum use rates for FulTime (qt/acre):  <table border="1"> <tr> <td>Soil</td> <td>&lt;3%OM</td> <td>3-7%OM</td> <td>&gt;7%OM</td> </tr> <tr> <td>Coarse</td> <td>2.0</td> <td>2.0</td> <td>2.5</td> </tr> <tr> <td>Medium</td> <td>2.0</td> <td>2.0-2.5</td> <td>2.5-3.0</td> </tr> <tr> <td>Fine</td> <td>2.0</td> <td>2.0-2.5</td> <td>2.5-3.0</td> </tr> </table> </li> <li>• Always add COC at 1.0% v/v or, under dry conditions, add COC at 2.0% v/v plus 2 qt/acre of 28% liquid nitrogen or 2 lb/acre of ammonium sulfate.</li> <li>• Banvel, Clarity, Marksman, Buctril, or Tough herbicide may be added to this mixture to provide burndown and residual control of broadleaf weeds.</li> </ul>	Soil	<3%OM	3-7%OM	>7%OM	Coarse	2.0	2.0	2.5	Medium	2.0	2.0-2.5	2.5-3.0	Fine	2.0	2.0-2.5	2.5-3.0
Soil	<3%OM	3-7%OM	>7%OM															
Coarse	2.0	2.0	2.5															
Medium	2.0	2.0-2.5	2.5-3.0															
Fine	2.0	2.0-2.5	2.5-3.0															

**Appendix I**

**Procedure for Testing the Compatibility of FulTime and Tank Mixes with Fluid Fertilizers.**

Since fluid fertilizers vary, the following procedure is suggested for determining whether FulTime may be combined with a specific fluid fertilizer for spray tank application.

**Materials Needed:**

- FulTime and any tank mix products.
- Fluid fertilizer to be used.
- Adjuvant for fertilizer tank mix: Use any adjuvant cleared for use on growing crops under 40 CFR 180.1001 to improve the compatibility of FulTime with fluid fertilizers. The adjuvant that provides the best emulsification depends on the specific fertilizer under consideration.
- Two 1 quart, wide mouth glass jars with lid or stopper.
- Measuring spoons (a 25 ml pipette or graduated cylinder provides more accurate measurement).
- Measuring cup, 8 ounces (257 ml).

**Procedure:**

1. Pour a pint (about 473 ml) of the fluid fertilizer into each of the quart jars.
2. Add FulTime and any tank mix combination to the jars. The order of addition is wettable powders first with mixing, followed by flowables with mixing and the EC's last. The rate of wettable powders and dry flowables is 1½ teaspoon per pound of product per acre to be applied. EC's should be added at the

rate of 1/2 teaspoon for each pint per acre to be applied. Premixing the wettable powders in 1 ounce of water before adding to the pint of fluid fertilizer will improve the compatibility of the final mixture.

3. Add 1/2 teaspoon (2 ml) adjuvant to one of the jars, label it as "with", and mix. The rate of 1/2 teaspoon per pint is equal to 3 pints of adjuvant per 100 gallons of fluid fertilizer.
4. Close both jars with lids or stoppers and mix the contents by turning the jars upside down ten times.
5. Inspect the surface and body of the mixtures:
  - (a) Immediately after completing the jar inversions
  - (b) After allowing the jars to stand quietly for 30 minutes
  - (c) And then again after turning the jars upside down 10 times after the 30 minute inspection

**Evaluation:**

If either mixture remains uniform for 30 minutes, the combination may be used. Should either mixture separate after 30 minutes, but readily remix uniformly with 10 jar inversions, the mixture can be used if adequate agitation is maintained in the tank. If the mixture with adjuvant is satisfactory but the one without adjuvant is not, be sure to use the adjuvant in the spray tank. Add the adjuvant first at a rate of 3 pints per 100 gallons of fluid fertilizer. Foaming may be minimized by using moderate agitation. **If non-dispersible oil, sludge, or clumps of solids form in the mixtures, the combination should not be used.**

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**Terms and Conditions of Use**

If terms of the following Warranty Disclaimer, Inherent Risks of Use and Limitation of Remedies are not acceptable, return unopened package at once to the seller for a full refund of purchase price paid. Otherwise, use by the buyer or any other user constitutes acceptance of the terms under Warranty Disclaimer, Inherent Risks of Use and Limitations of Remedies.

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**Inherent Risks of Use**

It is impossible to eliminate all risks associated with use of this product. Crop injury, lack of performance, or other unintended consequences may result because of such factors as use of the product contrary to label instructions (including conditions noted on the label, such as unfavorable temperatures, soil conditions, etc.), abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of Dow AgroSciences or the seller. All such risks shall be assumed by buyer.

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1. Refund of purchase price paid by buyer or user for product bought, or
2. Replacement of amount of product used.

Dow AgroSciences shall not be liable for losses or damages resulting from handling or use of this product unless Dow AgroSciences is promptly notified of such loss or damage in writing. In no case shall Dow AgroSciences be liable for consequential or incidental damages or losses.

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