

264-668

2-14-2002

1/10

Please read instructions on reverse before completing form.

Form Approved, OMB No. 2070-0060, Approval expires 2-28-95



United States  
Environmental Protection Agency  
Washington, DC 20460

<input type="checkbox"/>	Registration
<input checked="" type="checkbox"/>	Amendment
<input type="checkbox"/>	Other

OPP Identifier Number

### Application for Pesticide - Section I

1. Company/Product Number 264-668	2. EPA Product Manager Mr. J. Tompkins	3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Liberty® ATZ Herbicide	PM# 25	
5. Name and Address of Applicant (Include ZIP Code) Aventis CropScience USA LP 2 T. W. Alexander Dr. Research Triangle Park, NC 27709 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

### Section - II

<input type="checkbox"/> Amendment - Explain below.	<input checked="" type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

**NOTIFICATION**  
FEB 14 2002

**Explanation:** Use additional page(s) if necessary. (For section I and Section II.)  
Notification of Additions to Tank-Mix Partner Recommendations per PR Notice 98-10.

This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46. No changes other than those highlighted on the enclosed label have been made to the labeling or to the Confidential Statement of Formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willingly make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement actions and penalties under sections 12 and 14 of FIFRA.

### Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Metal	<input type="checkbox"/> Plastic
				<input type="checkbox"/> Glass	<input type="checkbox"/> Paper
<i>* Certification must be submitted</i>	If "Yes" Unit Packaging wgt.	No. per container	If "Yes" Package wgt	Other (Specify) _____	
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input type="checkbox"/>	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled			<input type="checkbox"/> Other _____		

### Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Paul A. Cain	Title Registration Manager	Telephone No. (Include Area Code) (919) 549-2582
<b>Certification</b> I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received <b>(Stamped)</b>
2. Signature 	3. Title Registration Manager	
4. Typed Name Paul A. Cain	5. Date February 6, 2002	

NOTIFICATION

2/10

FEB 14 2002

**RESTRICTED USE PESTICIDE**

(GROUND WATER CONCERNS)

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 water concerns. Users must read and follow all precautionary statements and instructions for use in order to minimize potential for atrazine to reach ground water.

**LIBERTY® ATZ HERBICIDE**

**A Selective Herbicide For Use Only on Corn Tolerant to Glufosinate-Ammonium. Aventis CropScience Recommends Use Only on Seed Designated as LibertyLink® or Warranted by Aventis CropScience as being tolerant to Liberty® ATZ Herbicide.**

**ACTIVE INGREDIENTS:**

Atrazine (CAS Number 1912-24-9).....	31.75%*
Related compounds .....	1.67%*
Glufosinate-ammonium† (CAS Number 77182-82-2) .....	10.00%**

**OTHER INGREDIENTS:**

.....	56.58%
<b>TOTAL</b>	<b>100.00%</b>

\*Equivalent to 3.3 pounds of atrazine and related compounds per U.S. gallon

\*\*Equivalent to 1.0 pound of glufosinate-ammonium per U.S. gallon

† Protected by U.S. Patent No 4,400,196

**EPA Reg No. 264-668**

**EPA Est. No. 11773-IA-001**

**EPA Est. No. 264-MI-001**

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

**For MEDICAL And TRANSPORTATION Emergencies ONLY Call 24 Hours A Day 1-800-334-7577**

**For PRODUCT USE Information Call 1-888-AVENTIS (1-888-283-6847)**

**FIRST AID**

<b>If swallowed</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advise.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If in Eyes</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> <li>• Have the product container or label with you when calling a poison control center or doctor or going for treatment.</li> </ul>
<b>If on skin or clothing</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Wash skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If inhaled</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• Get medical attention if breathing difficulty develops.</li> </ul>

**HOT LINE NUMBER**

Have the product container or label with you when calling a poison control center or doctor, or when going for treatment. Call 1-800-334-7577 for emergency medical treatment information.

**NOTE TO PHYSICIAN**

If this product is ingested, endotracheal intubation and gastric lavage should be performed as soon as possible, followed by charcoal and sodium sulfate administration. Additionally, call 1-800-334-7577 immediately for further information.

**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**CAUTION**

Harmful if swallowed or if inhaled. Causes moderate eye irritation. Avoid contact with eyes or clothing and avoid breathing vapor or spray mist. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

3/10

**Applicators and other handlers must wear:** Long-sleeved shirt and long pants; waterproof gloves and shoes plus socks.

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

**Engineering Control Statement**

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.

**ENVIRONMENTAL HAZARDS**

This product contains atrazine as one of its active ingredients. Atrazine can travel (seep or leach) through soil and can enter ground water which may be used as drinking water. Atrazine has been found in ground water. Users are advised not to apply atrazine to sand and loamy sand soils where the water table (ground water) is close to the surface and where these soils are very permeable, i.e., well-drained. Your local agricultural agencies can provide further information on the type of soil in your area and the location of ground water.

This product may not be mixed/loaded or used within 50 ft. of all wells, including abandoned wells, drainage wells, and sink holes. Operations that involve mixing, loading, rinsing, or washing of this product into or from pesticide handling or application equipment or containers within 50 ft. 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 spill 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 sites.

States may have in effect additional requirements regarding well-head setbacks and operational area containment.

This product may not be mixed or loaded within 50 ft. of intermittent streams and rivers, natural or impounded lakes and reservoirs. This product may not be applied aerially or by ground within 66 ft. of the points where field surface water runoff enters perennial or intermittent streams and rivers or within 200 ft. around natural or impounded lakes and reservoirs. If this product is applied to highly erodible land, the 66-ft. buffer or setback from runoff entry points must be planted to crop, seeded with grass, or other suitable crop.

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

**STORAGE AND DISPOSAL**

Do not contaminate water, food or feed by storage or disposal.

Keep the container tightly closed and dry in a cool, well-ventilated place. Storage temperature should be between 32°F and 85°F, with a maximum of 125°F. Protect against direct sunlight.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**CONTAINER DISPOSAL:** Empty containers should be triple rinsed (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.

**DIRECTIONS FOR USE**

**It is a violation of Federal law to use this product in a manner inconsistent with its labeling.**

Do not use this product until you have read the entire label. 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.

4/10

### 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 and restricted-entry intervals. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

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

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is: coveralls, waterproof gloves and shoes plus socks.

### GENERAL INFORMATION

#### Field Corn, Silage Corn and Corn Seed Production

Liberty® ATZ Herbicide is a suspension concentrate herbicide intended for application as a foliar spray for the control of a broad spectrum of emerged annual and perennial grass and broadleaf weeds in corn. This product is for use only on corn tolerant to the active ingredient in this product. Aventis CropScience recommends use only on seed designated as LibertyLink® or warranted by Aventis CropScience as being tolerant to Liberty® ATZ Herbicide. The basis of selectivity of Liberty® ATZ Herbicide in corn is the presence of a gene in LibertyLink® or other Aventis CropScience warranted corn hybrids which results in a plant that is tolerant to the active ingredient of Liberty® ATZ Herbicide.

### IMPORTANT CROP SAFETY INFORMATION

#### READ BEFORE USING THIS PRODUCT

Liberty® ATZ Herbicide is for use only on corn tolerant to glufosinate-ammonium, one of the active ingredients in this product. Aventis CropScience recommends use only on seed designated as LibertyLink® or warranted by Aventis CropScience as being tolerant to Liberty® ATZ Herbicide.

The basis of selectivity of Liberty® ATZ Herbicide in corn is the presence of a gene in LibertyLink® or other Aventis CropScience warranted corn hybrids which results in a plant that is tolerant to the active ingredient of Liberty® ATZ Herbicide. Corn not containing this gene will not be tolerant to Liberty® ATZ Herbicide and severe crop injury may result.

Use of Liberty® ATZ Herbicide on corn not designated as LibertyLink® or not warranted by Aventis CropScience may result in severe crop injury and/or yield loss.

Do not allow spray to contact foliage or green tissue of desirable vegetation other than corn tolerant to glufosinate-ammonium. This product may injure or kill all green vegetation contacted by the spray other than LibertyLink® corn or other corn hybrids warranted by Aventis CropScience.

Aventis CropScience does not warrant the crop safety or weed control of this product if used on corn other than that designated as LibertyLink® or warranted by Aventis CropScience to safely withstand the application of Liberty® ATZ Herbicide.

**THOROUGH SPRAY COVERAGE IS VERY IMPORTANT.** Visual effects and control from Liberty® ATZ Herbicide applications occur within 3 to 6 days after application under good growing conditions. Liberty® ATZ Herbicide works best when weeds are actively growing. To maximize weed control, no cultivation should occur in the period from 5 days before a Liberty® ATZ Herbicide application to 5 days after a Liberty® ATZ Herbicide application.

#### APPLICATION TIMING

Liberty® ATZ Herbicide is a foliar-active material with soil-residual activity. Liberty® ATZ Herbicide (alone and in tank mixes) may be applied following any corn preplant incorporated or preemergence herbicide applications. Best results are obtained when applications are made to actively growing weeds. Applications of Liberty® ATZ Herbicide following the use of soil-applied insecticides will not injure corn.

Applications of Liberty® ATZ Herbicide on corn may be made from emergence until corn is 12' tall.

Liberty® ATZ Herbicide is rainfast four (4) hours after application to most weed species, and rainfall within four (4) hours may necessitate retreatment or may result in reduced weed control. Applications should be made between dawn and one hour before sunset to avoid the possibility of reduced control of lambsquarters and velvetleaf. Do not apply when wind causes drift to off-site vegetation as injury may occur. Weed control may be reduced if application is made when heavy dew, fog and mist/rain are present or when weeds are under stress due to drought, cool temperatures or extended periods of cloudiness.

Apply Liberty® ATZ Herbicide at rates of 40 fluid ounces/acre (2.5 pints/acre) to 48 fluid ounces/acre (3 pints/acre). Refer to the *Rate Recommendation Tables for Weed Control* for selection of the proper rate dependent upon weed species and size. Do not apply more than one application of Liberty® ATZ Herbicide to the corn crop, however, Liberty® Herbicide may be used for retreatment.

#### RESTRICTIONS TO THE DIRECTIONS FOR USE

1. Where there are State or local requirements regarding atrazine use (including lower maximum rates and/or greater setbacks) which are different from the label, the more restrictive/protective requirements must be followed. Certain States may have established rate limitations within specific geographical areas. Consult your State lead pesticide control agency for additional information. It is a violation of this label to deviate from State use regulations.
2. DO NOT apply more than one application of Liberty® ATZ Herbicide to the corn crop.
3. DO NOT apply Liberty® ATZ Herbicide within 60 days of harvesting corn forage and within 70 days of harvesting corn grain and corn fodder.
4. DO NOT use liquid nitrogen fertilizers such as 28-0-0 or 10-34-0 as spray additives or as spray carriers. Antifoams may be added if needed.
5. DO NOT apply Liberty® ATZ Herbicide if corn shows injury from prior herbicide applications or environmental stress (drought, excessive rainfall, etc.).
6. DO NOT apply this product through any type of irrigation system.

5/10

7. Follow the following rotational crop restrictions:

- Do not rotate to any crop except corn until the following year, or injury may occur.
- If applied after June 10, do not rotate with crops other than corn or sorghum the next year, or crop injury may occur.
- In the high plains and intermountain areas of the west where rainfall is sparse and erratic or where irrigation is required, use only when corn or sorghum is to follow corn or sorghum or when a crop of untreated corn or sorghum is to precede other rotational crops.
- In eastern parts of the Dakotas, Kansas, western Minnesota, and Nebraska, do not rotate to soybeans if the rate of atrazine applied to corn or sorghum was more than 2 pounds of atrazine per acre or equivalent band application rate, or soybean injury may occur.
- Injury may occur to soybeans planted the year following application on soils having a calcareous surface layer.
- Do not plant sugar beets, tobacco, vegetables (including dry beans), spring-seeded small grains, or small-seeded legumes and grasses the year following application, or injury may occur.

**SPRAY ADDITIVES**

Liberty® ATZ Herbicide must be applied with ammonium sulfate (AMS). Use only fine-feed-grade or spray-grade AMS at 3 pounds per acre or 17 pounds per 100 gallons of water. Liberty® ATZ Herbicide is formulated to provide optimum herbicidal performance. Use of additional surfactants will not enhance weed control. Antifoams may be added if needed.

**MIXING INSTRUCTIONS**

**Shake well before use.** Liberty® ATZ Herbicide must be applied with properly calibrated and clean equipment. Prior to adding Liberty® ATZ Herbicide to the spray tank, ensure that the spray tank is thoroughly clean, particularly if a herbicide with the potential to injure crops was previously used (see *Cleaning Instructions*).

Liberty® ATZ Herbicide must be mixed with water to make a finished spray solution as follows:

1. Shake product container well before opening and using.
2. Fill the spray tank half full with water.
3. Start agitation.
4. Prepare a slurry of the proper amount of dry flowable/wettable powder tank mix partners in a small amount of water.
5. Add the slurry of dry materials to the spray tank.
6. Add the appropriate amount of AMS to the spray tank.
7. Add the proper amount of liquid tank mix partners.
8. Complete filling the spray tank with water.
9. Add the proper amount of Liberty® ATZ Herbicide and continue agitation.
10. If foaming occurs, use an antifoam agent.

Ensure that all spray system lines including pipes, booms, etc. have the correct concentration of Liberty® ATZ Herbicide/water mixture before the application is started. Flush out any remaining air or water from the spray system lines before starting the crop application. Keep bypass line on or near bottom of tank to minimize foaming.

If tank mix partners are added, maintain good agitation at all times until contents of the tank are sprayed. If the spray mixture is allowed to settle, thorough agitation is required to resuspend the mixture before spraying is resumed. Keep bypass line on or near bottom of tank to minimize foaming. Screen size in nozzles or line strainers should be no finer than 50 mesh.

**CLEANING INSTRUCTIONS**

Before mixing Liberty® ATZ Herbicide, thoroughly clean nurse tanks, spray tank, lines and filter, particularly if a herbicide with the potential to injure crops was previously used. Spray equipment should be thoroughly rinsed using a strong detergent solution.

After using Liberty® ATZ Herbicide, triple rinse sprayer and use a commercial tank cleaner before using in crops not labeled LibertyLink® or warranted by Aventis CropScience. Make sure any rinsate or foam is thoroughly removed from spray tank and boom. Rinsate may be disposed of according to the requirements contained in the *Environmental Hazards* section of this label.

**APPLICATION METHOD**

Refer to the *Rate Recommendation Tables for Weed Control* in the following section for the proper application rates. Uniform, thorough spray coverage is important to achieve consistent weed control.

**Ground Application:** Liberty® ATZ Herbicide should be applied broadcast in a minimum of 15 gallons of water per acre. Under dense weed/crop canopies, 20 to 40 gallons of water per acre should be used so that thorough spray coverage will be obtained.

Use 80-degree or 110-degree flat-fan nozzles and a spray pressure of 30 to 60 pounds per square inch (measured at the nozzle) to optimize spray coverage and canopy penetration. Droplet size should be set at about 300 microns for best results. If using Turbo TeeJet® spray tips, use a minimum pressure of 60 pounds per square inch so that thorough spray coverage will be obtained. Flood-jet nozzles, raindrop nozzles, controlled droplet application equipment, or air-assisted spray equipment do not provide adequate coverage characteristics; and therefore, are not recommended because weed control is likely to be reduced.

DO NOT apply when winds are gusty or when conditions will favor movement of spray particles off the desired spray target. To avoid drift and insure consistent weed control, apply Liberty® ATZ Herbicide with the spray boom as low as possible while maintaining a uniform spray pattern.

**Aerial Application:** Use only the 48 fluid ounces per acre rate of Liberty® ATZ Herbicide for aerial application. Poor coverage will result in reduced weed control. Liberty® ATZ Herbicide should be applied in a minimum of 5 gallons per acre of total spray solution using spray nozzle tips and sufficient

6/10

pressure to provide a uniform pattern and median droplet size of 350 to 450 microns. Aerial applications with this product should be made at a maximum height of 10 feet above the crop with low drift nozzles at a maximum pressure of 40 psi.

Avoid application under conditions where uniform coverage cannot be obtained or where excessive spray drift may occur. Do not apply when wind causes drift to off-site vegetation.

**RATE RECOMMENDATION TABLES FOR WEED CONTROL**

Apply Liberty® ATZ Herbicide at rates of 40 fluid ounces/acre (2.5 pints/acre) to 48 fluid ounces/acre (3 pints/acre). Rates in ounces of formulated product per acre for the control of weeds at selected heights are shown in the following tables. In weed populations with mixed species, apply the rates needed for all species present.

**Grass Weeds Controlled with Liberty® ATZ Herbicide Plus Ammonium Sulfate**

Weed Species	Maximum Weed Height or Diameter (Inches)	
	40 Fl. Oz./A (2.5 Pts./A)	48 Fl. Oz./A (3 Pts./A)
Barnyardgrass	*	2
Bluegrass, annual	3	5
Corn, volunteer	*	10 <sup>1,2</sup>
Crabgrass, large	3 <sup>3</sup>	3 <sup>3</sup>
Crabgrass, smooth	3 <sup>3</sup>	3 <sup>3</sup>
Cupgrass, woolly	6	8
Foxtail, bristly	4	6
Foxtail, giant	4	6
Foxtail, giant (ALS resistant)	4	6
Foxtail, green	4	6
Foxtail, robust purple	4	6
Foxtail, yellow	2 <sup>3</sup>	3 <sup>3</sup>
Johnsongrass, seedling	4	6
Millet, wild-proso	3	6
Millet, proso volunteer	3	6
Oat, wild	3 <sup>3</sup>	4 <sup>3</sup>
Panicum, fall	2	3
Panicum, Texas	3	3
Rice, red	3	4
Sandbur, field	* <sup>3</sup>	* <sup>3</sup>
Shattercane	6	8
Shattercane (ALS resistant)	6	8
Signalgrass, broadleaf	3	4
Sprangletop	3	4
Sorghum, volunteer	3	6
Stinkgrass	3	4
Witchgrass	3	4

\* indicates suppression

7/10

<sup>1</sup> Volunteer corn arising from a previous corn crop containing a glufosinate tolerance gene will not be controlled.

<sup>2</sup> A timely cultivation 7 to 10 days after application and/or retreatment within 2 weeks is recommended for controlling dense clumps of volunteer corn arising from a previous corn crop that was not tolerant to glufosinate-ammonium.

<sup>3</sup> Yellow foxtail, field sandbur, crabgrass and wild oats must be treated prior to tiller initiation for best results.

**Broadleaf Weeds Controlled with Liberty® ATZ Herbicide Plus Ammonium Sulfate**

Weed Species	Maximum Weed Height or Diameter (Inches)	
	40 Fl. Oz./A (2.5 Pts./A)	48 Fl. Oz./A (3 Pts./A)
Amaranth, Palmer	4	6
Beggarweed, Florida	4	6
Black medic	5	6
Buckwheat, wild	6	7
Buffalobur	6	6
Burcucumber	6	8
Carpetweed	4	6
Chickweed, common	6	6
Cocklebur, common	6	8
Cocklebur, common (ALS resistant)	6	8
Copperleaf, hophornbeam	4	6
Eclipta	4	6
Fleabane, annual	6	8
Galinsoga, hairy	6	8
Galinsoga, small-flower	6	7
Groundcherry, cutleaf	4	6
Geranium, cutleaf	4	6
Java bean	4	6
Jimsonweed	6	8
Kochia	4	6
Kochia (ALS resistant)	4	6
Ladysthumb	6	8
Lambsquarters, common	4	6
Lambsquarters, common (triazine resistant)	4	6
Mallow, common	4	6
Mallow, Venice	6	7
Marestail	6	8
Marshelder	4	6
Morningglory, entireleaf	6	7
Morningglory, ivyleaf	6	7
Morningglory, pitted	6	7
Morningglory, smallflower	4	6
Morningglory, tall	6	7
Mustard, wild	4	7
Nightshade, eastern black	6	6
Nightshade, hairy	6	6
Pennycress	4	6
Pigweed, redroot	4	6

8/10

Weed Species	Maximum Weed Height or Diameter (Inches)	
	40 Fl. Oz./A (2.5 Pts./A)	48 Fl. Oz./A (3 Pts./A)
Pigweed, redroot (ALS resistant)	4	6
Pigweed, prostrate	4	6
Pigweed, spiny	4	6
Pigweed, smooth	4	6
Pigweed, tumble	4	6
Puncturevine	4	6
Ragweed, common	6	8
Ragweed, common (ALS resistant)	6	8
Ragweed, giant	6	8
Ragweed, giant (ALS resistant)	6	8
Sesbania, hemp	6	8
Shepherd's-Purse	6	8
Sicklepod	6	7
Sida, prickly	6	7
Smartweed, Pennsylvania	6	8
Smellmelon	4	6
Sowthistle, annual	6	7
Sunflower, common	6	8
Sunflower, common (ALS resistant)	6	8
Sunflower, volunteer	6	8
Thistle, Russian	4	6
Velvetleaf	5	6
Waterhemp, common	4	6
Waterhemp, common (ALS resistant)	4	6
Waterhemp, tall	4	6

**Rate Recommendation Table for Biennial/Perennial Weed Control**

Liberty® ATZ Herbicide applied at 48 fluid ounces per acre (3 pints per acre) may provide top-growth control or suppression of the biennial/perennial weed species shown in the following table. A subsequent application of Liberty® Herbicide or a tank mix with other herbicides selected from those listed on this label is required for control.

**Biennial/Perennial Weeds Suppressed with Liberty® ATZ Herbicide Plus Ammonium Sulfate**

- |                      |                       |                  |
|----------------------|-----------------------|------------------|
| Alfalfa              | Clover, red           | Muhly, wirestem  |
| Artichoke, Jerusalem | Dandelion             | Orchardgrass     |
| Bindweed, field      | Dock, smooth          | Poinsettia, wild |
| Bindweed, hedge      | Dogbane, hemp         | Pokeweed         |
| Bluegrass, Kentucky  | Goldenrod, gray       | Quackgrass       |
| Bromegrass, smooth   | Johnsongrass, rhizome | Thistle, bull    |
| Burdock              | Milkweed, common      | Thistle, Canada  |
| Chickweed, Mouse-ear | Milkweed, honeyvine   | Timothy          |
| Clover, Alsike       |                       |                  |



9/10

**TANK MIX RECOMMENDATIONS FOR LIBERTY® ATZ HERBICIDE**

When using Liberty® ATZ Herbicide in tank mix combinations, follow the precautions and directions of use of the most restrictive label.

**Herbicide Tank Mix Partners for Liberty® ATZ Herbicide**

To enhance weed control and/or provide residual control in corn, Liberty® ATZ Herbicide may be mixed with the following herbicides.

2,4-D	Clarity® Herbicide	Permit® Herbicide
Accent® Herbicide	Distinct™ Herbicide	Prowl® 3.3 EC Herbicide
Accent® Gold™ Herbicide	Dual II Magnum™ Herbicide	Pursuit® Herbicide
Atrazine	Exceed® Herbicide	Python® WDG Herbicide
Banvel® Herbicide	Frontier® 6.0 Herbicide	Scorpion® III Herbicide
Basagran® Herbicide	Harness® Herbicide	Spirit™ Herbicide
Beacon® Herbicide	Hornet® Herbicide	Stinger® Herbicide
Buctril® 4EC Herbicide	Liberty® Herbicide	Surpass® EC Herbicide
Callisto™ Herbicide	Lightning™ Herbicide	Topnotch™ Herbicide
Celebrity™ Herbicide	NorthStar™ Herbicide	Tough® 5 EC Herbicide

Apply tank mixes of Lightning and Pursuit only to corn designated as Clearfield™ tolerant and LibertyLink or warranted by Aventis CropScience as being tolerant to Liberty® ATZ Herbicide.

Applications of 2,4-D, Banvel Herbicide, Celebrity Herbicide, Clarity Herbicide, Distinct Herbicide, Marksman® Herbicide, and NorthStar Herbicide to corn during periods of rapid growth may result in temporary leaning or green snap. If these symptoms occur, cultivation should be delayed until after corn is growing normally to avoid breakage. Tank mixing with Prowl 3.3 EC Herbicide may result in reduced control of barnyardgrass, fall panicum, field sandbur, yellow foxtail, and volunteer corn.

**Insecticide Tank Mix Partners for Liberty® ATZ Herbicide**

To provide weed and insect control in corn, Liberty® ATZ Herbicide may be mixed with the following insecticides:

Ambush® Insecticide	Furadan® 4F Insecticide	Pounce® 3.2EC Insecticide
Asana® XL Insecticide	Lorsban® 4E Insecticide	Warrior™ Insecticide

10/10

**IMPORTANT: READ BEFORE USE**

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once.

By using this product, user or buyer accepts the following Conditions, Disclaimer of Warranties and Limitations of Liability.

**CONDITIONS:** The directions for use of this product are believed to be adequate and should be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Aventis CropScience. All such risks shall be assumed by the user or buyer.

**DISCLAIMER OF WARRANTIES:** AVENTIS CROPSCIENCE MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, THAT EXTEND BEYOND THE STATEMENTS MADE ON THIS LABEL. No agent of Aventis CropScience is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. Aventis CropScience disclaims any liability whatsoever for special, incidental or consequential damages resulting from the use or handling of this product.

**LIMITATIONS OF LIABILITY:** THE EXCLUSIVE REMEDY OF THE USER OR BUYER FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE, SHALL NOT EXCEED THE PURCHASE PRICE PAID, OR AT AVENTIS CROPSCIENCE'S ELECTION, THE REPLACEMENT OF PRODUCT.

**Net Contents: 2.5 Gallons**

Liberty, LibertyLink, LibertyLink design and Buctril are registered trademarks of the Aventis Group.

Prowl and Pursuit are registered trademarks of American Cyanamid Company. Clearfield and Lightning are trademarks of American Cyanamid Company.

Basagran, Banvel, Clarity, Frontier and Marksman are registered trademarks of BASF Corporation. Celebrity and Distinct are trademarks of BASF Corporation.

Hornet, Lorsban, Python, Scorpion and Stinger are registered trademarks of Dow AgroSciences.

Accent, Accent Gold and Asana XL are registered trademarks of E.I. DuPont DeNemours and Co.

Furadan and Pounce are registered trademarks of FMC.

Harness is a registered trademark of Monsanto Company.

Permit is a registered trademark of, and used under license from Nissan Chemical Industries, Ltd.

Beacon, Dual, Dual II, Exceed and Tough are registered trademarks of a Syngenta Group Company. Callisto, Dual II Magnum, NorthStar and Spirit are trademarks of a Syngenta Group Company.

TurboTeeJet is a registered trademark of Spraying Systems Co.

Ambush and Surpass are registered trademarks of Zeneca Group Co. Warrior and Topnotch are trademarks of Zeneca Group Co.

**Aventis CropScience USA LP**  
P.O. Box 12014, 2 T.W. Alexander Drive  
Research Triangle Park, North Carolina 27709

Liberty ATZ Herbicide (MASTER) Approved 3/19/01, Approved by Notification 2/6/02.