

U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs Registration Division (H7505C) 401 "M" St., S.W. Washington, D.C. 20460

NOTICE OF PESTICIDE:

<u>x</u> Registration ____ Reregistration

(under FIFRA, as amended)

EPA Reg.

Number:

Date of Issuance:

45639-219

6 1998 AUG.

Term of Issuance:

Conditional

Name of Pesticide Project:

Liberty ATZ Herbicide

Name and Address of Registrant (include ZIP Code):

Mr. Victor A. Dorr Manager, Regulatory Affairs AGREVO USA COMPANY 2711 Centerville Road Wilmington, DE 19808

Note: Changes in labeling differing in substance from that accepted in connection with this recirriation must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product ϵ_0 the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name is connection. with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

- Submit and/or cite all data required for registration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.
 - Make the following label changes:
 - Revise the EPA Registration Number to read, "EPA Reg. No. 45639-219
 - b. Revise the "Statement of Practical Treatment as follows:

"IF SWALLOWED: Call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. person is unconscious, do not give anything by mouth and do not induce vomiting.

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Signature of Approving Official:

Jim Tompkins, PM-25 Herbicide Branch Registration Division, (7505C) Date:

-, 1998 AUG

EPA Form 8570-6

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Please add: NOTE TO PHYSICIANS. Some suggested types of information include the following:

- --technical information on symptomatology;
- --use of supportive treatments to maintain life functions
- --medicine that will counteract the specific physiological effects of the pesticide;
- --company telephone number to specific medical personnel who can provide specialized medical advice.
- 3. Under "Storage and Disposal" section pleass add the storage instruction.
- 4. Submit one (1) copy of the revised final printed label for the record.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. ϵ (e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Enclosures

Edition #9: June 15, 1998

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. AgrEvo USA Company Recommends Use Only on Seed Designated as LibertyLink® or Warranted by AgrEvo USA Company as Being Tolerant to Liberty ATZ Herbicide

ACTIVE INGREDIENTS:

Atrazine (CAS Number 1912-24-9)	31.75%*
Related compounds	
Glufosinate-ammonium [†] (CAS Number 77182-82-2)	10.00%**
OTHER INGREDIENTS	<u>56.58</u> %
	100.00%

^{*}Equivalent to 3.3 pounds of atrazine and related compounds per U.S. gallon

KEEP OUT OF REACH OF CHILDREN CAUTION

EPA Registration Number 45639-XXX-EEO

EPA Establishment Number:

Net Contents: 2.5 Gallons, 15 Gallons, 60 Gallons, 120 Gallons & Bulk

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



ACCEPTED
with COMMENTS
In EPA Letter Dated

Under the Federal Insecticide, Fundicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No.

AgrEvo USA Company Little Falls Centre One 2711 Centerville Road Wilmington, DE 19808

^{**}Equivalent to 1.0 pound of glufosinate-ammonium per U.S. gallon

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STATEMENT OF PRACTICAL TREATMENT

If Swallowed: Call a physician or Poison Control Center. Drink 1 or 2 glasses of

water and induce vomiting by touching back of throat with finger, or

if available, by administering syrup of ipecac. If person is unconscious, do not give anything by mouth and do not induce

vomiting.

If in Eyes:

Flush eyes with plenty of water. Call a physician if irritation

persists.

If Inhaled:

Remove individual to fresh air. If not breathing, give artificial respiration, preferable mouth-to-mouth. Get medical attention.

If on Skin:

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Remove contaminated clothing. Wash skin immediately with plenty

of soap and water.

IN CASE OF MEDICAL EMERGENCIES OR HEALTH AND SAFETY INQUIRIES, OR IN CASE OF FIRE, LEAKING OR DAMAGED CONTAINERS, INFORMATION MAY BE OBTAINED BY CALLING: (800) 228-5635, EXT. 202

For product inquiry information, call toll free: (888) GO-LIB-LINK [(888) 465-4254] or visit the Liberty-Link world wide web site at www.liberty-link.com.

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.

Applicators and other handlers must wear:

Long-sleeved shirt and long parts; waterproof gloves and shoes plus socks.

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

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 V/PS.

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 rain-water 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 110% 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 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.

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: [2½ Gallon Container Only]

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.

[15 Gallons, 60 Gallons, 120 Gallons & Bulk Containers Orly] This is a sealed returnable container to be used only for Liberty ATZ Herbicide. When this container is empty, it must not be opened, cleaned, or discarded. Empty containers must be returned to the original purchase location.

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.

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 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 and Silage Corn

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. AgrEvo USA Company recommends use only on seed designated as LibertyLink or warranted by AgrEvo USA Company 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 AgrEvo warranted corn hybrids which results in a plant that is tolerant to the active ingredient of Liberty ATZ Herbicide.

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IMPORTANT CROP SAFETY INFORMATION READ BEFROE USING THIS PRODUCT

Liberty ATZ Herbicide is for use only on corn tolerant to glufosinate-ammonium, one of the active ingredients in this product. AgrEvo USA Company recommends use only on seed designated as LibertyLink or warranted by AgrEvo USA Company 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 AgrEvo warranted corn hybrids which results in a plant that is tolerant to the active ingredient of Liberty ATZ Herbicide.

Use of Liberty ATZ Herbicide on corn not designated as LibertyLink or not warranted by AgrEvo 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 AgrEvo.

AgrEvo 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 AgrEvo 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. A cultivation may be made at least 5 days before a Liberty ATZ Herbicide application or 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 pre-plant incorporated or preemergence herbicide applications. Best results are obtained when applications are made to actively growing weeds. Liberty ATZ Herbicide will have an effect on weeds that are larger than the recommended leaf stage, however speed of activity and control may be reduced. 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 two hours 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.

Liberty ATZ Herbicide should be applied at the rate recommended in the Rate Recommendation Tables for Weed Control in the "Application Methods" section of this label. Refer to the Rate Recommendation Tables for Weed Control for the appropriate rate and weed size. Do not apply more than one application of Liberty ATZ Herbicide to the corn crop, however, Liberty Herbicide may be used for re-treatment.

RESTRICTIONS TO THE DIRECTIONS FOR USE

- 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 comcrop.
- 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 add any surfactants or crop oils. DO NOT use liquid nitrogen fertilizers such as 28-0-0 or 10-34-0 as spray additives or as spray carriers. Anti-foams or drift control agents 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.
- 7. Follow the following rotational crop restrictions:
 - Do not rotate to any crop except corn or sorghum 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. Do not add any surfactants or crop oils. Anti-foams or drift control agents may be added if needed.

MIXING INSTRUCTIONS

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:

- Fill the spray tank half full with water.
- 2. Start agitation.
- 3. Prepare a slurry of the proper amount of dry flowable/wettable powder tank mix partners in a small amount of water.
- 4. Add the slurry of dry materials to the spray tank.
- 5. Add the appropriate amount of AMS to the spray tank.
- 6. Add the proper amount of liquid tank mix partners.
- 7. Complete filling the spray tank with water.
- 8. Add the proper amount of Liberty ATZ Herbicide and continue agitation.
- 9. If foaming occurs, use an anti-foam agent.
- 10. Additional surfactants or crop oils should not be used.

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 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 AgrEvo. 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 METHODS

Uniform, thorough spray coverage is important to achieve consistent weed control. For best results, use flat fan nozzles. Do not use flood jet nozzles, controlled droplet application equipment or air-assisted spray equipment.

Ground Application: Refer to the Rate Recommendation Tables for Weed Control in the following section for the proper application rates. 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. DO NOT apply at ground speeds exceeding 12 mph. Liberty ATZ Herbicide should be applied broadcast in a minimum of 15 gallons of water per acre. Under dense weed/crop canopies 20-40 gallons of water per acre should be used so that thorough spray coverage will be obtained.

The use of 80 degree or 110 degree flat fan nozzles is highly recommended for optimum spray coverage and canopy penetration. Use a spray pressure of 30 to 60 pounds per square inch (measured at the nozzle). If using Turbo TeeJet® spray tips, use a minimum pressure of 45 pounds per square inch so that thorough spray coverage will be obtained.

Aerial Application: Refer to the Rate Recommendation Tables for Weed Control in the following section for the proper application rates. Liberty ATZ Herbicide should be applied in a minimum of 5 gallons per acre of total spray solution using spray nozzle tips and sufficient pressure to provide a uniform pattern and median droplet size of 200 - 350 microns. DO NOT use raindrop nozzles. 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

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 (inches)		
	32 Fluid Ounces/Acre	40 Fluid Ounces/Acre	
Barnyardgrass	*	4	
Bluegrass, annual	*	4	
Corn, volunteer	*	6	
Crabgrass, large	2	4	
Crabgrass, smooth	2	4	
Cupgrass, woolly	6	10	
Foxtail, bristly	4	8	
Foxtail, giant	6	10	
Foxtail, giant (ALS resistant)	6	10	
Foxtail, green	6	10	
Foxtail, robust purple	4	8	
Foxtail, yellow	*	4	
Johnsongrass, seedling	4	6	
Millet, wild-proso	2	4	
Millet, proso volunteer	2	4	
Oat, wild	*	3	
Panicum, fall	2	4	
Panicum, Texas	2	4	
Rice, red	2	4	
Sandbur, field	*	3	
Shattercane	. 4	8	
Shattercane (ALS resistant)	4	8	
Signalgrass, broadleaf	2 .	4	
Sprangletop	2	4	
Sorghum, volunteer	*	6	
Stinkgrass	2	4	
Witchgrass	2	4	

^{*} indicates suppression

Broadleaf Weeds Controlled with Liberty ATZ Herbicide Plus Ammonium Sulfate

Weed Species	Maximum Weed Height (inches)		
	32 Fluid Ounces/Acre	40 Fluid Ounces/Acre	
Amaranth, Palmer	*	4	
Beggarweed, Florida	*	4	
Black medic	4	6	
Buckwheat, wild	4	6	
Buffalobur	4	6	
Burcucumber	4	8	
Carpetweed	*	4	
Chickweed, common	4	6	
Cocklebur, common	8	12	
Cocklebur, common	8	12	
(ALS resistant)	0		
Copperleaf, hophombeam	2	4	
Eclipta	2	4	
Fleabane, annual	3	6	
Galinsoga, hairy	3	6	
Galinsoga, small-flower	3	6	
Groundcherry, cutleaf	2	4	
Geranium, cutleaf	2	4	
Java bean	2	4	
Jimsonweed	4	8	
Kochia	2	4	
Kochia (ALS resistant)	2	4	
Ladysthumb	8	12	
Lambsquarters, common	2	4	
Lambsquarters, common (triazine resistant)	2	4	
Mallow, common	*	4	
Mallow, Venice	4	6	
Marestail	6	12	
Marshelder	*	4	
Morningglory, entireleaf	2	6	
Morningglory, ivyleaf	4	6	
Morningglory, pitted	. 2	6	
Morningglory, smallflower	2	4	
Morningglory, tall	4	6	
Mustard, wild	4	6	
Nightshade, eastern black	4	6	
Nightshade, hairy	4	6	
Pennycress	2	4	
Pigweed, redroot	2	4	
Pigweed, redroot (ALS resistant)	2	4	
Pigweed, prostrate	*	4	
Pigweed, spiny	*	4	

Weed Species	Maximum Weed Height (inches)		
	32 Fluid Ounces/Acre	40 Fluid Ounces/Acre	
Pigweed, smooth	*	4	
Pigweed, tumble	*	4	
Puncturevine	*	4	
Ragweed, common	6	12_	
Ragweed, giant	6	10	
Sesbania, hemp	3	6	
Shepherd's-Purse	4	8	
Sicklepod	4	6	
Sida, prickly	4	12	
Smartweed, Pennsylvania	8	12	
Smellmelon	2	4	
Sowthistle, annual	3	6	
Sunflower, common	8	12	
Sunflower, common (ALS resistant)	8	12	
Sunflower, volunteer	6	8	
Thistle, Russian	*	4	
Velvetleaf	3	5	
Waterhemp, common	2	4	
Waterhemp, common . (ALS resistant)	2	4	
Waterhemp, tall	2	4	

* indicates suppression

Rate Recommendation Table for Biennial/Perennial Weed Control

Liberty ATZ Herbicide applied at 40 fluid ounces per acre may control or suppress many biennial/perennial weed species. Control of biennial/perennial weeds may be enhanced by using a subsequent application of Liberty Herbicide or tank mixes with other herbicides.

Weed Species	40 Fluid Ounces/Acre of Liberty ATZ Herbicide	40 Fluid Ounces/Acre of Liberty ATZ Herbicide Followed by 28 Fluid Ounces/Acre of Liberty Herbicide
Alfalfa	✓	✓
Artichoke, Jerusalem	*	1
Bindweed, field	*	√
Bindweed, hedge	*	√
Bromegrass, smooth	*	√
Burdock		V
Chickweed, Mouse-ear	✓	✓
Clover, Alsike	√	√

Weed Species	40 Fluid Ounces/Acre of Liberty ATZ Herbicide	40 Fluid Ounces/Acre of Liberty ATZ Herbicide Followed by 28 Fluid Ounces/Acre of Liberty Herbicide
Clover, red	V	√
Dandelion	/	✓
Dock, smooth	*	✓
Dogbane, hemp	*	*
Goldenrod, gray	*	7
Johnsongrass, rhizome	*	✓
Milkweed, common	*	*
Milkweed, honeyvine	*	*
Muhly, wirestem	*	✓
Orchardgrass	*	✓
Poinsettia, wild	*	√
Pokeweed	*	1
Quackgrass	*	√
Thistle, bull	*	√
Thistle, Canada	· *	✓
Timothy	*	✓

- ✓ indicates control
- * indicates suppression

TANK MIX RECOMMENDATIONS FOR LIBERTY ATZ HERBICIDE

When using Liberty ATZ Herbicide in tank mix combinations, follow the precautions and directions of the most restrictive label for the appropriate timing, rate and crop response information.

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.

Accent [●] Herbicide	Dual [●] Herbicide	Python [®] WDG Herbicide
atrazine	Dual II [®] Herbicide	Resource [®] Herbicide
Banvel [®] Herbicide	Dual II Magnum Herbicide	Scorpion [®] III Herbicide
Basagran [®] Herbicide	Frontier 6.0 Herbicide	Spirit [®] Herbicide
Beacon [®] Herbicide	Hamess [®] Herbicide	Stinger [®] Herbicide
Buctril [®] 4EC Herbicide	Homet [®] Herbicide	Surpass® EC Herbicide
Clarity [®] Herbicide	Permit [®] Herbicide	Topnotch Herbicide
Curtail [®] Herbicide	Prowi® 3.3 EC Herbicide	Tough 3.75 EC Herbicide

Applications of Clarity Herbicide, Banvel Herbicide or Marksman[®] 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.

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

IMPORTANT: READ BEFORE USE

By using this product, user or buyer accepts the following conditions, warranty, 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, because of extreme weather conditions and soil conditions, manner of use and other factors beyond AgrEvo USA Company's control, it is impossible for AgrEvo USA Company to eliminate all risks associated with the use of this product. As a result, crop injury or ineffectiveness is always possible. All such risks shall be assumed by the user or buyer.

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