

U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (7505C)
401 "M" St., S.W.
Washington, D.C. 20460

EPA Reg. Number:

Date of Issuance:

45639<del>-</del>

JAN | 7 | 1997

NOTICE OF PESTICIDE:

X Registration
Reregistration

Term of Issuance:

Conditional; Expiration Date July 13, 1999

Name of Pesticide Product: Liberty Herbicide

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

AgrEvo USA Company 2711 Centerville Road Wilmington, DE 19808

Mote: Changes in labeling differing in substance from that accepted in connection with this registration 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 by 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 in 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:

- 1. 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.
- 2. Submit data to demonstrate that the gene will not move into other plants. AgrEvo must submit a monitoring plan to fulfill this requirement. The plan must consist of monitoring of weeds (via scientific analysis) in margins of treated fields to see if they have the gene.
- 3. Submit data to demonstrate that the amount of pesticide used does not increase as a result of the use of transgenic corn and soybeans.

Signature of Approving Official:

Date:

JAN 17 1997

EPA FORM 8570-6

page 2 EPA Reg. No. 45639-199

- 4. Make the following label change before you release the product for shipment:
  - a. Revise the EPA Registration Number to read, "EPA Reg. No. "45639-199".
- 5. Submit one copy of the revised final printed label for the record before you release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

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

Joanne I. Miller Product Manager (23) Fungicide-Herbicide Branch Registration Division (7505C)

Enclosure

## LIBERTY" HERBICIDE

# A SELECTIVE HERBICIDE FOR USE IN LIBERTY LINK™ CORN AND SOYBEANS ONLY

**ACTIVE INGREDIENT:** 

\*Equivalent to 1.67 pounds of active ingredient per U.S. gallon.

#### KEEP OUT OF REACH OF CHILDREN

### **WARNING - AVISO**

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.)

EPA Registration Number 45639-199

EPA Establishment Number 407-IA-2

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

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



ACCEPTED

JAN | 7 1997

Under the Federal Insecticide. Fungicide, and Redenticide Act. as amended, for the posticide registered under 45637-199

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

#### 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 with plenty of water. Get medical attention if irritation

persists.

If on Skin: Remove contaminated clothing. Wash skin immediately with plenty

of soap and water. Get medical attention.

If Inhaled: Remove individual to fresh air. Get medical attention if breathing

difficulty develops.

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: 800-441-6138, Ext. 3174.

#### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

#### WARNING

May be fatal if absorbed through skin. Causes moderate eye irritation. Harmful if swallowed. Do not get in eyes, on skin or on clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

#### Personal Protective Equipment (PPE)

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

#### Applicators and other handlers must wear:

Coveralls worn over short-sleeved shirt and short pants; chemical-resistant gloves such as barrier laminate, butyl rubber ≥14 mils, nitrile rubber ≥14 mils, neoprene rubber ≥14 mils, polyvinyl chloride (PVC) ≥14 mils or viton ≥14 mils; chemical resistant footwear plus socks; protective eyewear. Wear a chemical resistant apron when mixing/loading and cleaning equipment.

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 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

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 contaminate water by cleaning of equipment or disposal of equipment washwaters.

#### STORAGE AND DISPOSAL

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

Do not use or store near heat or open flame.

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.

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#### **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 worn over short-sleeved shirt and short pants; chemical-resistant gloves such as barrier laminate, butyl rubber ≥14 mils, nitrile rubber ≥14 mils, neoprene rubber ≥14 mils, polyvinyl chloride (PVC) ≥14 mils or viton ≥14 mils; chemical resistant footwear plus socks; protective eyewear.

#### **GENERAL INFORMATION**

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#### Field Corn, Silage Corn and Soybeans

Liberty Herbicide is a water-soluble herbicide for application as a foliar spray for the control of a broad spectrum of emerged annual and perennial grass and broadleaf weeds in Liberty Link<sup>™</sup> Corn and Soybeans. The basis of selectivity of Liberty Herbicide in corn and soybeans is the presence of a gene in Liberty Link Corn and Soybean plants which allows the plant to detoxify the active ingredient of Liberty Herbicide.

APPLY LIBERTY HERBICIDE ONLY TO CORN OR SOYBEANS WHICH AFE' LABELED "LIBERTY LINK".

THOROUGH SPRAY COVERAGE IS VERY IMPORTANT. Visual effects and control from Liberty Herbicide applications occur within 2 to 4 days after application under good growing conditions. Liberty Herbicide is an organic product that decomposes into naturally occurring compounds.

Do not allow spray to contact foliage or green tissue of desirable vegetation other than Liberty Link Corn or Soybeans. This product will injure or kill all other green vegetation contacted by the spray. Liberty Herbicide works best when weeds are actively growing.

#### LIBERTY LINK CORN AND SOYBEAN VARIETIES

Liberty Herbicide may *only* be applied to Liberty Link Corn or Soybeans. Do not use Liberty Herbicide unless the corn or soybean variety is labeled "LIBERTY LINK".

#### **APPLICATION TIMING**

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Applications of Liberty Herbicide on corn may be made from emergence until corn is 24" tall or in the V-7 stage of growth, i.e., 7 developed collars, whichever comes first. Applications of Liberty Herbicide on soybeans may be made from emergence to the bloom growth stage. Liberty Herbicide is a foliar-active material with no soil-residual activity. Best results are obtained when applications are made to actively growing weeds. Liberty Herbicide is rainfast four (4) hours after application, and rainfall within four (4) hours may necessitate retreatment. Applications should be made between dawn and two hours before sunset to avoid the possibility of reduced weed control. Do not apply when wind causes drift to desirable vegetation as injury may occur. Weed control may be reduced when heavy dew is present or when weeds are under stress due to drought, cool temperatures or extended periods of cloudiness.

Liberty Herbicide should be applied at the rate recommended in the *Rate Recommendation Tables for Weed Control* in the "APPLICATION METHODS" section of this label. A repeat application of Liberty Herbicide or tank mixes with appropriate residual herbicides will be needed to control weeds that have not yet emerged at the time of application. Refer to the *Rate Recommendation Tables for Weed Control* for the appropriate rate and weed size. Do not apply more than two applications of Liberty Herbicide to the corn or soybean crop and do not exceed 56 ounces of this product on corn or soybeans per growing season.

#### MIXING INSTRUCTIONS

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

- 1. 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 proper amount of liquid tank mix partners.
- 6. Complete filling the spray tank with water.
- 7. Add the proper amount of Liberty Herbicide and continue agitation.
- 8. If foaming occurs, use an anti-foam agent.
- 9. Additional surfactant should not be used.

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. Carefully select proper nozzle to avoid spraying a fine mist. For best results, use flat fan nozzles.

#### **APPLICATION METHODS**

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Ground Application: Refer to the Rate Recommendation Tables for Weed Control for proper application rates. Liberty Herbicide should be applied broadcast in a minimum of 10 gallons of water per acre. Flat fan nozzles are recommended. Use a spray pressure of 30 to 40 pounds per square inch. Under dense weed/crop canopies 20-40 gallons of water per acre should be used so that thorough spray coverage will be obtained.

Aerial Application: Refer to the Rate Recommendation Tables for Weed Control for proper application rates. Liberty 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 apply when wind causes drift to desirable vegetation.

#### **Rate Recommendation Tables for Weed Control**

Rates in ounces (pints) 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 Herbicide at 16 Fl. Oz. (1 Pt.)/Acre

Weed Species	Control (√) Suppression ( <b>*</b> )	Maximum Weed Height (inches)
Cupgrass, woolly	✓	4
Foxtail, giant	✓	4
Foxtail, green	✓	4
Johnsongrass, seedling	✓	2

#### Broadleaf Weeds Controlled with Liberty Herbicide at 16 Fl. Oz. (1 Pt.) /Acre

Weed Species	Control (✓) Suppression (*)	Maximum Weed Height (inches)
Cocklebur, common	✓	6
Jimsonweed	✓	2
Ladysthumb	✓	4
Marestail	✓	2
Mustard, wild	✓	2
Ragweed, common	✓	4
Shepherd's-Purse	✓	2
Sida, prickly	✓	2
Smartweed, Pennsylvania	✓	4
Sunflower, common	✓	6

## Grass Weeds Controlled with Liberty Herbicide at 20 Fl. Oz. (1.25 Pts.)/Acre

Weed Species	Control (✓) Suppression (*)	Maximum Weed Height (inches)
Barnyardgrass	*	2
Corn, volunteer	*	4
Crabgrass, large	✓	2
Crabgrass, smooth	✓	2
Cupgrass, woolly	✓	6
Foxtail, giant	✓	6
Foxtail, green	✓	6
Foxtail, yellow	*	2
Johnsongrass, seedling	✓	4
Millet, wild-proso	✓	2
Millet, volunteer proso	✓	2
Panicum, fall	✓	4
Panicum, Texas	<b>/</b>	2
Shattercane	<b>✓</b>	4
Signalgrass, broadleaf	✓	2
Sorghum, volunteer	*	4

## Broadleaf Weeds Controlled with Liberty Herbicide at 20 Fl. Oz. (1.25 Pts.)/Acre

Weed Species	Control (✓) Suppression (*)	Maximum Weed Height (inches)
Buckwheat, wild	✓	4
Buffalobur	✓	4
Chickweed, common	✓	4
Cocklebur, common	✓	8
Jimsonweed	<b>√</b>	4
Kochia	✓	2
Ladysthumb	✓	8
Lambsquarters, common	✓	4
Mallow, Venice	✓	4
Marestail	✓	4
Marshelder	*	2
Morningglory, entireleaf	<b>✓</b>	2
Morningglory, ivyleaf	✓	4
Morningglory, pitted	✓	2
Morninggiory, smallflower	<b>✓</b>	2
Morningglory, tall	✓	4
Mustard, wild	✓	4
Nightshade, eastern black	<b>✓</b>	4
Pigweed, Redroot	✓	2
Ragweed, common	✓	6
Ragweed, giant	✓	4
Sesbania, hemp	✓	3
Shepherd's-Purse	✓	4
Sicklepod	✓	4
Sida, prickly	✓	4
Smartweed, Pennsylvania	✓	8
Sowthistle	✓	3
Sunflower, common	✓	8
Velvetleaf	✓	3
Waterhemp, common	<b>√</b>	. 2 , ,
Waterhemp, tall	✓	2

## Grass Weeds Controlled with Liberty Herbicide at 28 Fl. Oz. (1.75 Pts.)/Acre

Weed Species	Control (✓) Suppression (*)	Maximum Weed Height (inches)
Barnyardgrass	✓	4
Corn, volunteer	✓	6
Crabgrass, large	✓	4
Crabgrass, smooth	✓	4
Cupgrass, woolly	✓	10
Foxtail, giant	✓	10
Foxtail, green	✓	10
Foxtail, yellow	✓	4
Johnsongrass, seedling	✓	6
Millet, wild-proso	✓	4
Millet, volunteer proso	✓	4
Oat, wild	✓	3
Panicum, fall	✓	4
Panicum, Texas	✓	4
Sandbur, field	✓	3
Shattercane	✓	6
Signalgrass, broadleaf	✓	4
Sorghum, volunteer	✓	6

## Broadleaf Weeds Controlled with Liberty Herbicide at 28 Fl. Oz. (1.75 Pts.)/Acre

Weed Species	Control (✓) Suppression (*)	Maximum Weed Height (Inches)
Amaranth, Palmer	✓	4
Beggarweed, Florida	✓	4
Buckwheat	✓	6
Buffalobur	1	6
Carpetweed	✓	4
Chickweed, common	✓	4
Cocklebur, common	<b>✓</b>	12
Jimsonweed	✓	8
Kochia	✓	4
Ladysthumb	✓	12
Lambsquarters, common	✓	6
Mallow, Venice	1	6
Marestail	1	8
Marshelder	✓	4
Morningglory, entireleaf	1	6
Morningglory, ivyleaf	<b>✓</b>	6
Morningglory, pitted	<b>√</b>	6
Morningglory, smallflower	<b>✓</b>	6
Morningglory, tall	1	6
Mustard, wild	1	6
Nightshade, eastern black	1	6
Pigweed, Redroot	<b>✓</b>	4
Pigweed, prostrate	1	4
Pigweed, spiny	✓	4
Pigweed, smooth	1	4
Pigweed, tumble	1	4
Ragweed, common	1	12
Ragweed, giant	✓	8
Sesbania, hemp	✓	6
Shepherd's-Purse	<b>✓</b>	8
Sicklepod	<b>√</b>	. 6 , ,
Sida, prickly	<b>✓</b>	6
Smartweed, Pennsylvania	<b>√</b>	; 12 , ,
Sowthistle	<b>√</b>	323.16
Sunflower, common .	<b>✓</b>	,,,,12
Thistle, Russian	1	1,1,4
Velvetleaf		5
Waterhemp, common	· /	4,
Waterhemp, tall	1	4

#### **INSTRUCTIONS FOR PERENNIAL WEEDS**

Liberty Herbicide applied at 28 fluid ounces (1.75 pints) per acre may give full or partial control of many perennial weed species such as field bindweed, hedge bindweed, dandelion, hemp dogbane, rhizome Johnsongrass, honeyvine milkweed, common milkweed, yellow nutsedge, quackgrass, Canada thistle, orchardgrass, and wirestem muhly. Control of these perennials may be enhanced by using a second application or tank mixes with other herbicides.

#### TANK MIX RECOMMENDATIONS FOR LIBERTY HERBICIDE

When using Liberty Herbicide with tank mix partners, follow the precautions and directions of the most restrictive herbicide label for the appropriate timing and rate selection. Additional additives recommended on tank mix herbicide labels may cause crop injury.

Liberty Herbicide (alone and in tank mixes) may be applied following any pre-plant incorporated or preemergence herbicide applications.

To enhance weed control and/or provide needed residual control in corn and soybeans, Liberty Herbicide may be tank mixed with any herbicide registered for postemergence use on corn (except metribuzin herbicide and Basis<sup>1</sup> Herbicide) and soybeans (except for Classic<sup>1</sup> Herbicide and Cobra<sup>2</sup> Herbicide).

Anti-foams or drift control agents may be added if needed. Do not add surfactants.

Compatibility of Liberty Herbicide with clay-based dry-flowable herbicides should be determined before tank-mixing.

#### FARMSTEADS .

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When applied as recommended, this product controls undesirable plant vegetation in noncrop areas around farmstead building foundations, shelter belts, along fences and general nonselective farmstead weed control. Refer to the "APPLICATION METHODS" section of this labeling for appropriate application rates to control specific weeds.

#### SPECIAL NOTES FOR LIBERTY HERBICIDE APPLIED TO LIBERTY LINK CORN AND SOYBEANS

- 1. Corn or soybeans must be labeled "LIBERTY LINK". Application to corn hybrids or soybean varieties not designated "LIBERTY LINK" will result in severe crop injury and/or yield loss.
- 2. Avoid drift to desirable vegetation.
- A cultivation may be made at least 5 days before or after a Liberty Herbicide 3. application.
- 4. Clean sprayer thoroughly before mixing Liberty Herbicide, particularly if a herbicide with the potential to injure crops was previously used.
- Thoroughly triple rinse sprayer and use a commercial tank cleaner before using 5. in crops not labeled Liberty Link. Make sure any rinsate or foam is thoroughly removed from spray tank and boom. Rinsate may be disposed of in non-crop areas that do not contain desirable vegetation.
- 6. DO NOT apply more than two applications of Liberty Herbicide to the corn or soybean crop. DO NOT exceed 56 ounces of Liberty Herbicide on corn or sovbeans per growing season.
- 7 DO NOT apply Liberty Herbicide within 60 days of harvesting corn forage and within 70 days of harvesting corn grain and corn fodder.
- 8. DO NOT apply Liberty Herbicide within 70 days of harvesting soybean seed.
- 9. DO NOT plant wheat in a field treated with Liberty Herbicide for 120 days after the last application of this product.
- DO NOT feed treated green immature growing soybean plants to livestock. 10.
- 11. DO NOT add surfactants. Anti-foams or drift control agents may be added if needed.
- DO NOT apply Liberty Herbicide if soybeans (or corn) show injury from prior 12. herbicide applications or environmental stress (drought, excessive rainfall, etc.).
- DO NOT apply this product through any type of irrigation systems. 13.
- AgrEvo USA Company does not warrant the safety or performance of this 14. product when used on "brown bag" or farmer-saved seed (bir) ruri seed).

#### 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.

DISCLAIMER OF WARRANTIES: THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, WHICH EXTEND BEYOND THE STATEMENTS MADE ON THIS LABEL. No agent of AgrEvo USA Company is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. AgrEvo USA Company disclaims any liability whatsoever for incidental or consequential damages, including, but not limited to, liability arising out of breach of contract, express or implied warranty (including warranties of merchantability and fitness for a particular purpose), tort, negligence, strict liability or otherwise.

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<sup>2</sup> Cobra is a registered trademark of Valent USA Company

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Date: January 16, 1997

Edition: 3

<sup>&</sup>lt;sup>1</sup> Classic and Basis are registered trademarks of E. I. duPont de Nemours & Company