

DEC 11 1995

Mr. Victor A. Dorr  
Agrevo USA Company  
Little Falls Centre One  
2711 Centerville Road  
Wilmington, DE 19808

Dear Mr. Dorr:

Subject: Avelo<sup>®</sup> Herbicide  
EPA Registration No. 45639-187  
Pesticide Petition 8F3607  
Application Dated February 22, 1991, Request to Register  
LSC Herbicide for Tree and Vine Crops; Applications  
Dated April 13, 1995 and June 15, 1995; and Your Letter  
Dated November 1, 1995, Request To Register the Tree Nut Group  
(Almonds, Pecans, walnuts, Filberts, Hickory Nuts, and Macadamia  
nuts (cash nuts))

Your application to amend the subject pesticide product registration  
by adding the subject use sites has been reviewed. Tolerances have  
been established under the Code of Federal Regulations, section 180.473.  
to cover the secondary residues of glufosinate ammonium in or on animal  
commodities resulting from feeding almond hulls and in or on the tree  
nuts group of raw agricultural commodities. The added use-patterns proposed  
on the labeling submitted November 1, 1995 are acceptable amendments to the  
the subject registration under the Federal Insecticide, Fungicide, and  
Rodenticide Act (FIFRA) as amended provided that you:

1. Submit an acceptable rat oncogenicity study (EPA Guidelines No. 83-2) on or before July 1, 1998.
2. Submit an acceptable field dissipation study (EPA Guidelines No. 164-1) on or before July 1, 1998.
3. Submit production information (gallons produced) for this product for the fiscal year in which the use on tree nuts (including almonds) is conditionally registered, in accordance with FIFRA, section 29. The fiscal year begins October 1 and ends September 30. Production information will be submitted to this Agency not later than November 15, following the end of the preceding fiscal year.
4. make the following label change before you release the product for shipment under the enclosed label.

~~Add the restriction that reads: "In the State of New York only:  
Not for use in Nassau and Suffolk Counties." directly under the  
"Directions for Use" section as was accepted on labeling  
dated June 26, 1995.~~

SYMBOL							
SURNAME							
DATE							

5. Submit one (1) copy of the final printed label before releasing the product for shipment bearing the subject labeling.

The chemical expression of this pesticide chemical is correctly stated on the ingredient statement of the enclosed label. All future applications for registration of this chemical that involve a chemical expression for glufosinate-ammonium must use the one accepted on this label.

This amendment will expire automatically on July 1, 1998. Sale and distribution of the subject product bearing labeling for the new use-pattern site, almonds, will be illegal after July 1, 1998. The tolerances allowing residues of the subject product will also expire automatically; however, not until five (5) years after the date published in the FEDERAL REGISTER. After that date, sale or distribution of a raw agricultural commodity in interstate commerce containing any residue of the subject active ingredient will be a violation of the Federal Food, Drug and Cosmetic Act.

After the required data have been submitted and permanent tolerances established, EPA will entertain an application to amend the registration of the subject product without any special limitations on the duration of the registration.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA Section 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.

Sincerely yours,

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

Enclosure

EWilson: Diskette: Ignite 12-06-95

**BEST COPY AVAILABLE**

Revised: October 17, 1995 (Edition #4)

# RELY<sup>®</sup> HERBICIDE

## FOR NONSELECTIVE WEED CONTROL OF EMERGED WEEDS IN APPLES, GRAPES, AND TREE NUTS

**ACTIVE INGREDIENT:**

glufosinate-ammonium: butanoic acid, 2-amino-4-(hydroxymethylphosphinyl)-, monoammonium salt \*\*..... 11.33%\*

INERT INGREDIENTS:..... 88.67%  
TOTAL 100.00%

\*Equivalent to 1.00 pound 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 45639-187

EPA Establishment Number 045639-CAN-001

Net Contents: [Various Sizes]

ACCEPTED  
with COMMENTS  
In EPA Letter Dated

\*\*U.S. Patent Nos. 4,168,963 & 4,400,196

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.  
45639-187



**AgrEvo<sup>™</sup>**

A Company of Hoechst and NOR-AM

**AgrEvo USA Company**

**Little Falls Centre One**

**2711 Centerville Road**

**Wilmington, DE 19808**

**PRECAUTIONARY STATEMENTS****WARNING****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. Do not induce vomiting in or give anything by mouth to an unconscious person.
- If in eyes:** Flush with plenty of water. Get medical attention if irritation persists.
- If on skin:** Wash with plenty of soap and water. Get medical attention if irritation occurs.
- 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

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

Causes substantial but temporary eye injury. Harmful if swallowed, inhaled or absorbed through skin. Avoid contact with skin, eyes or clothing. Avoid breathing vapor or spray mist.

**Personal Protective Equipment**

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:**

Long-sleeved shirt and long pants; chemical-resistant gloves such as barrier laminate, butyl rubber  $\geq 14$  mils, nitrile rubber  $\geq 14$  mils, neoprene rubber  $\geq 14$  mils, polyvinyl chloride (PVC)  $\geq 14$  mils or viton  $\geq 14$  mils; shoes plus socks; protective eyewear.

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.

**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, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not clean equipment or dispose of equipment washwaters in a manner that will contaminate water resources or arable land. Glufosinate-ammonium and its degradates have those properties normally associated with pesticides that have been detected in groundwater. Use of this product in areas with coarse soils and high water tables may result in groundwater contamination.

**GENERAL INFORMATION**

Rely® Herbicide is a nonselective herbicide for application as a foliar spray for the control of a broad spectrum of emerged annual and perennial grass and broadleaf weeds. Rely Herbicide will also control certain woody species. Plants that have not yet emerged at the time of application will not be controlled. **THOROUGH SPRAY COVERAGE IS IMPORTANT.** Visual effects and control from application of Rely Herbicide occur within 2 to 4 days after application under good growing conditions. Rely Herbicide is an organic product that decomposes into naturally occurring compounds.

Avoid all contact with foliage or green tissue of desirable vegetation. This product is nonselective and will injure or kill all green vegetation contacted by the spray. If desirable vegetation is contacted, rinse the sprayed portion with water immediately to reduce potential injury.

Rely Herbicide works best when weeds are actively growing. Warm temperatures, high humidity, and bright sunlight improves the performance of Rely Herbicide. Weed control may be reduced when applications are made to weeds under stress due to drought or cool temperatures. Weeds under stress or in dense populations will require application at the highest rate recommended or repeat applications. Refer to the "How to Apply" section of this label.

**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.

**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.

**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; 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; shoes plus socks; protective eyewear.

## TREE AND VINE CROPS

Apply Rely Herbicide as a directed spray to control undesirable vegetation in the following orchards, groves and vineyards. When applied as recommended in this label, Rely Herbicide controls annual and perennial weeds. Refer to the "How to Apply" section of this labeling for recommended rates and a list of weeds controlled. Apply as a broadcast, banded or spot treatment application depending on the situation. Avoid direct spray or drift to desirable vegetation. Regrowth may occur due to the weed stage of growth at application, low use rate or environmental conditions. Repeat applications of Rely Herbicide may be necessary to control plants generating from underground parts or seed.

### Tree Nuts

almonds  
 pecans  
 walnut  
 filbert  
 hickory nut  
 macadamia nut (bush nut)

### Vineyards

all grapes varieties  
 (table, wine and raisins)

### Tree Fruits

apples

Do not apply on or allow spray drift onto desirable foliage of trees and vines as damage will occur. Avoid contact with green or uncallused bark on young trees and vines as injury may occur. Do not apply Rely Herbicide on trees within one year of transplanting.

Refer to the "When to Apply", "How to Mix" and "How to Apply" sections of this label for information on how and when to properly mix and apply this product. Do not apply more than 18 quarts of Rely Herbicide per acre to tree and vine crops in a 12-month period.

## WHEN TO APPLY

Rely Herbicide is a foliar-active material with no soil-residual activity. Best results are obtained when applications are made to actively growing weeds. Rely Herbicide is rainfast 4 hours after application. Rainfall within 4 hours may necessitate retreatment. Do not irrigate within 4 hours of treatment.

Apply Rely Herbicide at the rate recommended in the "How to Apply" section of this label. Repeat applications of Rely Herbicide or tank mixes of Rely Herbicide with appropriate residual herbicides will be needed to control weeds emerging from underground parts or seeds.

When using Rely Herbicide in a program approach with other herbicides, follow the precautions and directions of those herbicides as to the most appropriate rate selection.

**HOW TO MIX**

Mix Rely Herbicide with water to make a finished spray solution as follows:

- 1. Fill the spray tank with the required amount of water.
- 2. Add the proper amount of Rely Herbicide

**HOW TO APPLY**

Apply Rely Herbicide by ground equipment only. Use back pack, pump-up, or hydraulic sprayers. Do not apply this product aerially. Do not apply this product through any type of irrigation system. Good spray coverage of target weeds is important for optimum control.

**BROADCAST APPLICATION**

Use the recommended rate of Rely Herbicide as shown in the following sections. Use a minimum of 20 gallons of water per acre with a minimum of 30 psi spray pressure. Proper calibration of sprayers is needed to assure applications at the correct rates and volumes. As density of weeds increases, increase spray gallonage and/or pressure to ensure complete coverage.

**BANDED APPLICATION**

For banded applications, use the following formula to calculate the amount of herbicide needed:

$$\frac{\text{Band width in inches}}{\text{Row width in inches}} \times \text{Rate per acre broadcast} = \text{amount of herbicide needed for treatment}$$

For best results with ground broadcast or banded application equipment, use flat fan nozzles. Check for even distribution of spray droplets. Do not apply when weather conditions favor runoff or drift.

**SPOT OR DIRECTED-SPRAY APPLICATION**

For spot or directed-spray application, use Rely Herbicide at 1.5 to 4 fluid ounces per gallon of water. Mix 1.5 to 4 fluid ounces per gallon of water depending upon the weed and stage of growth as shown in the following sections. Spray undesirable vegetation foliage on a spray-to-wet basis prior to runoff. Ensure uniform and complete coverage. Use a coarse spray. Do not spray during windy conditions. Use a back pack, pump-up, or hydraulic sprayer. Thoroughly clean the sprayer following use.

DO NOT make spot spray applications to apple suckers, as tree injury may occur.





Weeds Controlled by Rely Herbicide

For spot application:  
Apply 1.5 fluid ounces per gallon of water.

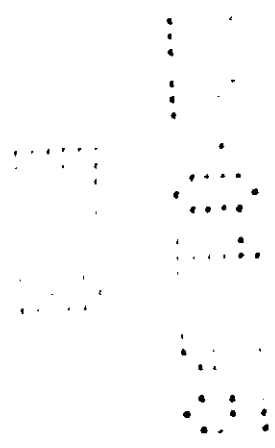
For broadcast application:  
Apply 3 quarts per acre when the weeds are less than 6 inches tall.  
Apply 5 quarts per acre when the weeds are 6 inches or taller.

Broadleaf Weeds

- chickweed
- clover
- common cocklebur
- filaree
- jimsonweed
- kochia
- London rocket
- malva (little mallow)
- maretail
- purslane
- shepherdspurse
- smartweed

Grasses and Sedges

- barnyardgrass
- cupgrass
- fall panicum
- giant foxtail
- goosegrass
- green foxtail
- johnsongrass
- lovegrass
- shattercane
- stinkgrass
- windgrass
- yellow foxtail



Weeds Controlled by Rely Herbicide

For spot application:

Apply 3-4 fluid ounces per gallon of water.

For broadcast application:

Apply 4 quarts per acre when the weeds are less than 8 inches tall.

Apply 6 quarts per acre when the weeds are 8 inches or taller.

Broadleaf Weeds

- annual sowthistle
- bindweed
- buffalobur
- burdock
- Canada thistle
- curly dock
- dandelion
- dogbane (hemp)
- field gromwell
- fleabane
- goldenrod
- horsetail
- lambsquarters
- leafy spurge
- mugwort
- musk thistle
- nettle
- nightshade
- pennycress
- pigweed, red root
- plantain
- prickly lettuce
- ragweed
- Russian thistle
- tansy mustard
- velvetleaf
- vervain
- vetch
- Virginia cooperleaf
- white clover
- white heath aster
- wild buckwheat
- wild mustard
- wild onion
- wild rose
- wild turnip
- woodsorrel
- yellow rocket

Grasses and Sedges

- annual bluegrass
- bahiagrass
- barley
- Bermudagrass
- carpetgrass
- crabgrass
- dallisgrass
- downy brome grass
- fescue
- guineagrass
- Kentucky bluegrass
- nutsedge
- paragrass
- quackgrass
- ryegrass
- sandbur
- smooth brome grass
- torpedograss
- vaseygrass
- wheat
- wild oat

Woody Species

- Rubus* spp.
- poison ivy/oak



### Sucker Control with Rely Herbicide

Rely Herbicide will give excellent control of suckers without injury to mature trees or vines. For sucker control, apply a split application approximately 4 weeks apart at 4 quarts per acre. Coverage of all sucker foliage is necessary for optimum control. Suckers should not exceed 12 inches in length.

### TANK MIXTURES

Always predetermine the compatibility of labeled tank mixtures of this herbicide with water carrier by mixing small proportional quantities in advance. Always add individual formulations to the spray tank according to the following sequence (first to last): wettable powder, flowable, emulsifiable concentrate, drift control additive, water-soluble liquid followed by surfactant.

Mixing procedures:

1. Fill the spray tank one-half full with water.
2. Add the tank mix product to the spray tank.
3. Fill the spray tank with water to the desired level.
4. Add the recommended amount of Rely Herbicide, always add the Rely Herbicide last to help reduce foaming.
5. Nonionic antifoaming agents may be used.
6. Additional surfactant is not needed.

Maintain good agitation at all times until the 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 nozzle or line strainers should be no finer than 50 mesh. Carefully select proper nozzle to avoid spraying a fine mist. For best results with conventional ground application equipment, the use of flat fan nozzles is suggested.

**TANK MIX RECOMMENDATIONS FOR TREE AND VINE CROPS**

Rely Herbicide does not provide residual weed control. Rely Herbicide will not control underground, unexposed plants or plant parts. Delay application until plants have emerged. Tank mix applications of Rely Herbicide plus suitable residual herbicides are recommended for broad spectrum control and residual activity. Refer to label of companion tank mix products for directions, limitations, warnings, and list of weeds controlled.

**RATE OF PRODUCT/ACRE**

HERBICIDE	TREE NUTS	VINEYARD (Grapes)	TREE FRUITS
Simazine 4L	Do Not Use	2.0 - 4.8 quarts	2 - 4 quarts
Simazine 80W	Do Not Use	2.5 - 6.0 pounds	2.5 - 5.0 pounds
Simazine 90	Do Not Use	2.2 - 5.3 pounds	2.2 - 4.4 pounds
Karmex <sup>1</sup> DF	2 - 6 pounds	2 - 6 pounds	4 pounds
Sinbar <sup>1</sup> 80W	1.5 - 3.0 pounds*	Do Not Use	2 - 4 pounds
Solicam <sup>2</sup> DF	2.5 - 5.0 pounds	2.5 - 5.0 pounds	2.5 - 5.0 pounds
Surflan <sup>3</sup> 4AS	2 - 6 quarts	2 - 6 quarts	2 - 6 quarts
Dervinol <sup>4</sup> 50WP	8 pounds	8 pounds	4 pounds
Goal <sup>5</sup> 1.6E	2.5 - 10 pints	2.5 - 10 pints	2.5 - 10 pints
Princip <sup>6</sup> 4L	1 - 4 quarts	2 - 4.8 quarts	2 - 4 quarts

\*For tank mix applications to tree nuts, Sinbar 80W may be mixed with Rely Herbicide for use on pecans only.

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Registered trademark of: 1. E.I. duPont de Nemours & Company; 2. Sandoz Agro, Inc 3. DowElanco; 4. Zeneca Inc., Ag Products; 5. Rohm & Haas Co.; 6. CIBA Corp.

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**FARMSTEADS**

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 "How to Apply" section of this labeling for appropriate application rates to control specific weeds.

**SPECIAL NOTES**

1. **DO NOT** apply more than 4.5 gallons of this product per acre to any site in any calendar year.
2. **DO NOT** graze, harvest and/or feed treated orchard cover crops to livestock.
3. **DO NOT** apply this product through any type of irrigation system.
4. **DO NOT** apply this product aerially.
5. **DO NOT** apply this product within 14 days of nut, apple or grape harvest.
6. Compatibility of Rely Herbicide and clay-based, dry flowable herbicides should be determined before tank mixing.

**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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