

45639 187  
APR 21 1995

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

Dear Mr. Dorr:

Subject: Ignite<sup>®</sup> ISC Herbicide  
EPA Reg. No. 45639-187  
Application Dated January 18, 1995, Request To  
Amend Directions of Use by Adding New Sites  
of Application and Weeds Controlled, Resubmissions  
Dated February 15, 1995, February 21, 1995 and  
April 13, 1995

The proposed labeling submitted with your letter of  
April 13, 1995 has been reviewed and found to be acceptable  
for registration under the Federal Insecticide, Fungicide  
and Rodenticide Act as amended provided that you:

1. Revise the second sentence in the third paragraph  
under the section "When To Apply" to read: "Repeat  
applications of Finale Herbicide or tank mixes of  
Finale Herbicide plus one or more appropriate  
residual herbicide(s) listed on this label will be  
needed to control weeds emerging from underground  
parts or seeds."
2. Add a period at the end of the last sentence in the  
"Non Crop Uses" section.
3. Submit one (1) copy of the final printed label before  
releasing the product for shipment under the the  
subject labeling.

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

E.Wilson:Diskette ABC24:04-20-95

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Revised: April 9, 1995 (Edition #11)

**FINALE® HERBICIDE****FOR NONSELECTIVE WEED CONTROL OF EMERGED WEEDS  
IN NONCROP AREAS****ACTIVE INGREDIENT:**

glufosinate-ammonium: ammonium-DL-homoalanin  
-4-yl-(methyl) phosphinate\*\* ..... 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 Est. No. 8340-CN-01

Net Contents: [Various Sizes]

\*\*Protected by U.S. Patent Nos. 4,168,963 &amp; 4,400,196

ACCEPTED  
with COMMENTS  
In EPA Letter Dated

APR 21 1995

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

45639-187

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
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**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 (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:**

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.

## **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.

**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.

**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 AGREVO USA COMPANY'S ELECTION, THE REPLACEMENT OF PRODUCT.

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**GENERAL INFORMATION**

Finale® Herbicide is a nonselective 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. Finale 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 Finale Herbicide occur within 2 to 4 days after application under good growing conditions.

Finale Herbicide is a foliar-applied material that has no residual activity in the soil. The active ingredient of Finale Herbicide is an organic product that is produced by soil microorganisms and it 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.

Finale Herbicide works best when weeds are actively growing. 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. 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.

#### **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  $\geq 14$  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.

#### **NON-AGRICULTURAL USE REQUIREMENTS**

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses. The application for trimming and edging, industrial, recreational and public areas, and farmsteads are not within the scope of the WPS.

## **WHEN TO APPLY**

Finale Herbicide is a foliar-active material with no soil-residual activity. Best results are obtained when weeds are actively growing. 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. Refer to the "How to Apply" section of this label.

Finale Herbicide is rainfast 4 hours after application and rainfall within 4 hours may necessitate retreatment.

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

## **NON CROP USES**

When applied as recommended in this label, Finale 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. Applications may be made on a broadcast, banded or spot treatment basis 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 treatments may be necessary to control plants generating from underground parts or seed

## **HOW TO MIX**

Finale Herbicide must be mixed 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 this product and mix.

## **USE PRECAUTIONS**

Do not apply this product through any type of irrigation system.

Do not apply this product aerially.

Avoid direct spray or drift of this product with green tissue of desirable vegetation

This product is rainfast in 4 hours after application and rainfall within 4 hours may necessitate retreatment.

Do not allow grazing of vegetation treated with this product

## **HOW TO APPLY**

### **SPOT OR DIRECTED APPLICATIONS**

This product may be used as a spot or directed spray application using 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. Backpack, pump-up, and hydraulic sprayers may be used. Thoroughly clean the sprayer following use.

### **BROADCAST OR BOOM APPLICATIONS**

Apply 2 to 6 quarts per acre depending upon the weed and stage of growth as shown in the following sections. Use a minimum of 20 gallons of water per acre with a minimum of 30 psi spray pressure.

### **TANK MIX RECOMMENDATIONS FOR NONCROP USES**

When using Finale Herbicide in a program approach with other herbicides, follow the label precautions and directions for use of herbicides as to the most appropriate rate selection. Compatibility of Finale Herbicide and clay-based dry flowable herbicides should be determined before tank mixing. Tank mix applications of Finale Herbicide plus the following herbicides are recommended for broad spectrum emerged weed control and preemergence control of weeds:

Arsenal® Herbicide①  
 Barricade® 65WG Herbicide②  
 Endurance® Herbicide②  
 Factor® Herbicide②  
 Gallery® 75 Dry Flowable Specialty Herbicide③  
 Pendulum® WDG Herbicide①  
 Predict® Herbicide②  
 Surflan A.S®. Specialty Herbicide③  
 Vanquish®②

Always follow the use directions in accordance with the respective labels. No label dosage rates should be exceeded.

Registered trademark of:

- ① American Cyanamid Company
- ② Sandoz Agro, Incorporated
- ③ DowElanco



### Weeds Controlled by Finale 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)  
marestail  
purslane  
shepherdspurse  
smartweed

#### Grasses and Sedges

barnyardgrass  
cupgrass  
fall panicum  
giant foxtail  
goosegrass  
green foxtail  
johnsongrass (rhizome)  
lovegrass  
shattercane  
stinkgrass  
windgrass  
yellow foxtail

### Weeds Controlled by Finale 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  
Virginia cooperleaf  
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

poison oak  
poison ivy  
pines  
European blackberry  
roundleaf greenbrier

## USE ON WOODY SPECIES

When applied as recommended Finale Herbicide will provide control, partial control or suppression of certain perennial woody weed species. Apply 2 to 6 quarts per acre. Use the high recommended rates per acre of this product when conditions are not optimum for spray penetration, such as when weed growth is heavy or dense. Lower recommended rates may be used when the target species is conifer and when vegetation growth conditions allow for uniform spray coverage.

big maple	<i>Acer</i> spp.
blackberry	<i>Rubus</i> spp.
deer brush	<i>Ceanothus</i> spp.
Douglas fir	<i>Pseudotsuga mensiesii</i>
evergreen huckleberry	<i>Gaylussacia</i> spp.
gallberry	<i>Ilex</i> spp.
hazel	<i>Corylus</i> spp.
honeysuckle	<i>Lonicera</i> spp.
multiflora rose	<i>Rosa multiflora</i>
oak	<i>Quercus</i> spp.
pine	<i>Pinus</i> spp.
salmonberry	<i>Rubus spectabilis</i>
sweet gum	<i>Liquidambar styraciflua</i>
sumac	<i>Rhus</i> spp.
thimbleberry	<i>Rubus parviflorus</i>
trumpet creeper	<i>Campis radicans</i>
varnishleaf	<i>Ceanothus</i> spp.
vine maple	<i>Acer circinatum</i>
Western red cedar	<i>Juniperus</i> spp.

## WHERE TO APPLY

### TRIMMING AND EDGING

Finale Herbicide may be used for trimming and edging landscape areas such as: around individual trees and shrubs, landscape beds, foundations, fences, driveways, paths, and parking areas; also on golf courses along cart paths, around sign and light posts, and around sand traps. This organic product has no soil-residual activity which allows for transplanting into the treated area with no harm to desirable plants. For control of weeds emerging from seed, the use of Finale herbicide in tank mix with preemergence herbicides is recommended. If spraying in areas adjacent to desirable plants, use a shield made of cardboard, plywood, or sheet metal while spraying to help prevent spray from contacting foliage of desirable plants. Refer to the "How to Apply" section of this labeling for appropriate application rates to control specific weeds.

## INDUSTRIAL, RECREATIONAL AND PUBLIC AREAS

When applied as a spot or spray-directed application, this product controls annual and perennial weeds listed on this label in areas such as: airports, commercial plants, storage and lumber yards, highways, educational facilities, fence lines, ditch banks, dry ditches, schools, parking lots, tank farms, pumping stations, parks, utility rights-of-way, roadsides, railroads, other public areas and similar industrial and nonfood crop areas. Refer to the "How to Apply" section of this labeling for appropriate application rates to control specific weeds.

## ORNAMENTALS AND CHRISTMAS TREES

When applied as recommend by this label, this product may be used for the control of undesirable vegetation in site preparation prior to planting, around and within shade and greenhouses, and as a post directed spray around containers and field-grown established ornamentals and Christmas trees. Avoid direct spray or drift contact with foliage and green bark. **Do not apply Finale Herbicide as an over-the-top broadcast spray in ornamentals and shade or Christmas trees.**

**Post directed spray application** - Finale Herbicide may be applied as a post directed spray to control in-row weeds in field-grown woody plants. Refer to the "How to Apply" section of this labeling for appropriate application rate to control specific weeds. This product may also be used between and around containers and in site preparation for new planting.

**Site preparation application** - This product may be used for pre-plant site preparation for the control of annual and perennial weeds listed on this label, in ornamental and Christmas tree plantings. Ornamentals and Christmas trees may be planted into the treated area after the restricted entry interval (REI) of 12 hours has elapsed. Refer to the "How to Apply" section of this labeling for appropriate application rates to control specific weeds.

**Greenhouse and shade house applications** - Finale Herbicide may be used to control weeds in greenhouses and shadehouses. **Air circulation fans must be turned off during application. Apply Finale Herbicide as a directed spray, using large droplet, low pressure type nozzles. Avoid drift and direct contact with desirable vegetation. Do not use in greenhouses or shade houses containing edible crops.**

## 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. Do not allow grazing of vegetation treated with this product