

PM 23 45639-214 11-13-97 18712

US ENVIRONMENTAL PROTECTION AGENCY OFFICE OF PESTICIDES PROGRAMS REGISTRATION DIVISION (TS-767) WASHINGTON, DC 20460 NOTICE OF PESTICIDE: <input checked="" type="checkbox"/> REGISTRATION <input type="checkbox"/> REREGISTRATION (Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended)	EPA REGISTRATION NO.	DATE OF ISSUANCE
	45639-214	NOV 13 1987
	TERM OF ISSUANCE Conditional	
NAME OF PESTICIDE PRODUCT Finale™ Vn Herbicide		

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

Agrevo USA Company
 2711 Centerville Road
 Little Falls Centre One
 Wilmington, DE 19806

NOTE: Changes in labeling formula 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 U.S. 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.

A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.

Registration is in no way to be construed as an indorsement or approval of this product by this 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 reregistered in accordance with FIFRA SECTION 5(C)(3) provided that you:

1. submit and/or cite all data required for reregistration of this product under FIFRA sec. 4 (c)(2)(C) when this Agency requires all registrants of similar products to submit such data.
2. Delete the statement on page 4 that reads: "Finale Vn herbicide is a roller-applied material that has no soil residual herbicidal activity".
3. submit one (1) copy of the final printed labeling 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 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.

Enclosure

Joanne I. Miller
 Product Manager (23)
 Fungicide-Herbicide Branch
 Registration Division (7605C)

ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL	DATE
<i>Joanne I. Miller</i>	NOV 13 1997

Revised: November 6, 1997 (Edition #5)

FINALE[®] VM HERBICIDE

FOR POSTEMERGENCE WEED CONTROL IN RIGHTS-OF-WAY, INDUSTRIAL SITES, AND ORNAMENTAL, CONIFER, HARDWOOD, AND CHRISTMAS TREE PLANTINGS

ACTIVE INGREDIENT:

glufosinate-ammonium* (CAS Number 77182-82-2) 11.33%**

OTHER 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 45639-214

EPA Est. No. 407-IA-2

Net Contents: 2½ Gallons & 30 Gallons

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



**ACCEPTED
with COMMENTS
In EPA Letter Dated**

NOV 13 1997

**Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
45639-214**

**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. 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

For product inquiry information, call toll free: (800) 331-2867

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING

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 ≥ 14 mils, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils; polyvinyl chloride (PVC) ≥ 14 mils or Viton[®] ≥ 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.

GENERAL INFORMATION

Finale VM Herbicide is a nonselective water-soluble herbicide for application as a foliar spray. When applied as recommended in this label, Finale VM Herbicide controls a broad spectrum of emerged annual and perennial grass and broadleaf weeds. Finale VM Herbicide will also control certain woody species including conifers. 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 VM Herbicide occur within 2 to 4 days after application under good growing conditions. Finale VM Herbicide is a foliar-applied material that has no soil residual herbicidal activity.

Avoid all contact, including direct spray and drift, with foliage or green tissue of desirable plants. 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 VM Herbicide works best when weeds are actively growing. Applications may be made on a broadcast, banded or spot treatment basis depending on the situation. 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. 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. Refer to the "How to Apply" section of this label for the recommended rates and a list of weeds controlled.

Aerial applications of Finale VM Herbicide should be made only under the conditions specified within this label. Refer to the weed and stage of growth tables shown in the following sections for specific information.

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.

In the State of New York only: Not for use in Nassau and Suffolk Counties.

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.

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 industrial, recreational, public areas, and trimming & edging are not within the scope of the WPS.

WHEN TO APPLY

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 recommended rate.

Finale VM Herbicide is rainfast in a minimum of one-half hour and an average of 4 hours after application depending upon weed species, environmental conditions and herbicide application rate.

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

HOW TO MIX

Mix Finale VM 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 this product and mix.

HOW TO APPLY

Spot or Directed Applications

This product may be used as a spot or directed spray application. Prepare the desired volume of spray solution by mixing Finale VM Herbicide in water at the amounts indicated in the following table:

Percent Spray Solution	Amount of Finale VM Herbicide to Make the Following Volume of Spray Solution:		
	1 Gallon	25 Gallons	100 Gallons
1 %	1½ fl oz	2 pints	1 gallon
1 ½%	2 fl oz	3 pints	1½ gallons
2 ½%	3 fl oz	5 pints	2½ gallons
3 %	4 fl oz	6 pints	3 gallons
6 %	8 fl oz	12 pints	6 gallons

Determine the proper percent spray solution depending upon the weed and stage of growth as shown in the following sections. Spray undesirable vegetation foliage on a spray-to-wet basis. Do not apply beyond runoff. Ensure uniform and complete coverage. Use a coarse spray. To minimize drift, avoid spraying during windy conditions. Backpack, pump-up, and hydraulic sprayers may be used. Thoroughly clean the sprayer following use.

Ground Broadcast or Boom Applications

Apply 2 to 6 quarts of Finale VM Herbicide per acre in a minimum of 20 gallons of water per acre depending upon the weed species as shown in the following sections. Use adequate water and pressure to ensure thorough coverage.

Aerial Applications

Apply as a foliar treatment using a minimum of 5 gallons of water acre to ensure thorough coverage. Do not apply when winds are gusty or under any conditions which favor drift on to desirable vegetation. Applications under conditions which cause drift of this product will result in damage to any vegetation contacted. When tank-mixing with another herbicide, always follow the most restrictive aerial application directions. Drift control additives may be used. If a drift control additive is used, observe and follow all directions and precautions as specified on the additive label.

Do not apply directly to any body of water.

Weeds Controlled by Finale VM Herbicide (Low Rate Range)

For spot or directed spray application:

Apply a 1% to 2½% spray solution of Finale VM Herbicide.

For broadcast application:

Apply 3 quarts of Finale VM Herbicide per acre when the weed height or diameter is less than 6 inches.

Apply 5 quarts of Finale VM Herbicide per acre when the weed height or diameter is 6 inches or greater.

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 (rhizome)
- lovegrass
- shattercane
- stinkgrass
- windgrass
- yellow foxtail

Weeds Controlled by Finale VM Herbicide (High Rate Range)

For spot or directed spray application:

Apply a 3% to 6% spray solution of Finale VM Herbicide

For broadcast application:

Apply 4 quarts of Finale VM Herbicide per acre when the weed height or diameter is less than 8 inches.

Apply 6 quarts of Finale VM Herbicide per acre when the weed height or diameter is 8 inches or greater.

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
fescue
guineagrass
Kentucky bluegrass
nutsedge
paragrass
quackgrass
ryegrass
sandbur
smooth brome
torpedograss
vaseygrass
wheat
wild oat

Tank Mix Recommendations

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

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

Always follow the use directions in accordance with the more restrictive of label limitations and precautions. No label dosage rates should be exceeded. This product cannot be mixed with any product containing a label prohibition against such mixing.

Use Precautions

- Do not apply this product through any type of irrigation system.
- Avoid direct spray or drift of this product with green tissue of desirable plants.
- Do not allow grazing of vegetation treated with this product.

WHERE TO APPLY

Industrial, Recreational, Public Areas, and Trimming & Edging

When applied as a spot or directed spray 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 nonfund crop areas. Refer to the "How to Apply" section of this labeling for appropriate application rates to control specific weeds.

Ornamentals, Conifers, Hardwoods, and Christmas Trees

When applied as recommended on this label, this product may be used for the control of undesirable plants in site preparation prior to planting and establishment of conifer and hardwood plantations and as a directed spray around container and field-grown established ornamentals and Christmas trees. Avoid direct spray or drift contact with foliage and green bark. *DO NOT APPLY FINALE VM HERBICIDE AS AN OVER-THE-TOP BROADCAST SPRAY TO DESIRABLE CONIFERS, HARDWOODS, ORNAMENTALS AND SHADE OR CHRISTMAS TREES.*

Directed Spray Application - Finale VM Herbicide may be applied as a directed spray to control in-row weeds in field-grown woody plants, and for directed conifer release applications in conifer plantations. Refer to the "How to Apply" section of this labeling for the appropriate application rate to control specific species. 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, conifer, hardwood and Christmas tree plantings. Ornamentals, seedling conifers, hardwoods, 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 the appropriate application rates to control specific weeds.

Woody Species

Finale VM Herbicide will provide control, partial control or suppression of the perennial woody weed species listed below. Apply 2 to 6 quarts of Finale VM Herbicide per acre. Use the high recommended rates per acre of this product when conditions are not optimum for spray coverage, 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.

<i>Common Name</i>	<i>Scientific Name</i>
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.
Poison-ivy	<i>Rhus radicans</i>
Poison-oak	<i>Rhus toxicodendron</i>
Roundleaf greenbriar	<i>Smilax rotundifolia</i>
Salmonberry	<i>Rubus spectabilis</i>
Sweet gum	<i>Liquidambar styraciflua</i>
Sumac	<i>Rhus</i> spp.
Thimbleberry	<i>Rubus parviflorus</i>
Trumpetcreeper	<i>Campis radicans</i>
Varnishleaf	<i>Ceanothus</i> spp.
Vine maple	<i>Acer eircinatum</i>
Western red cedar	<i>Juniperus</i> spp.

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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