

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

DEC - 6 1999

Dear Mr. Dorr:

Subject: Finale [®] Herbicide (Derringer[®] Herbicide)
EPA Registration No. 45639-187

Application and Letter Dated September 9, 1999
and Resubmission Letter Dated December 1, 1999:
Request To Amend Registration by Adding Alternate
Brand Name, "Derringer" herbicide" and To Revise
Use Directions Described as: (a) revision of sub-header
text under product name, (b) addition of a percent spray
solution table in the "Spot or Directed Applications"
sub-section of the "How to Apply" section, (c) deletion of
several products in the "Tank Mix Recommendations" for
"Noncrop Uses" section, (d) change from a specification of
fluid ounces per gallon of water to a percent spray
solution in the "Weeds Controlled by Derringer" section,
and (e) reference only to "Industrial Areas" in the
"Where to Apply" section.

The proposed labeling of December 1, 1999 reflecting the
subject labeling revisions has been reviewed and found to be
acceptable for registration under the Federal Insecticide,
Fungicide and Rodenticide Act (FIFRA) as amended, provided that you:

- 1. On page 6 revise the directions for conducting a
compatibility test with tank mix partners by replacing the
two statements that reads: "Compatibility of Derringer
Herbicide A quart jar....." with:

Compatibility Testing:

"A compatibility test must be conducted with any potential
tank mix partner with Derringer herbicide, except with
any one of those listed above. Using a clear glass quart jar,
conduct the test as described below:"

- 2. Submit one (1) copy of the final printed label prior
to releasing this pesticide product for shipment under
the subject labeling.

CONCURRENCES

SYMBOL								
SURNAME								
DATE								

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

-2-

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 proposed label is enclosed for your records.

Sincerely yours,

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

Enclosure

wilson:Diskette Ignite: 12-02-99

CONCURRENCES

SYMBOL								
SURNAME								
DATE								

Edition #4: November 27, 1999

DERRINGER™ HERBICIDE

FOR NONSELECTIVE CONTROL OF EMERGED WEEDS AND BRUSH IN NONCROP AREAS

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.

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

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 No. 407-IA-2

See side/back panel for First Aid statements

Net Contents: [Various Sizes]

**ACCEPTED
with COMMENTS
In EPA Letter Dated**

DEC -- 6 1999

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

45639-187



AgrEvo USA Company

**Little Falls Centre One
2711 Centerville Road
Wilmington, DE 19808**

FIRST AID

- If Swallowed:** Rinse mouth thoroughly with plenty of water. Do **NOT** induce vomiting. Get medical attention immediately.
- 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.

NOTE TO PHYSICIAN

If this product is ingested, endotracheal intubation and gastric lavage should be performed as soon as possible, followed by charcoal and sodium sulfate administration. **Additionally, call 1-800-471-0660 immediately for further information.**

In case of medical, environmental, or transportation emergencies or inquiries, call 1-800-471-0660 (24 hours/day).

For product inquiry information, call toll free: 1-800-331-2867 or visit the AgrEvo Green Industry web site at www.agrevo-green.com

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.

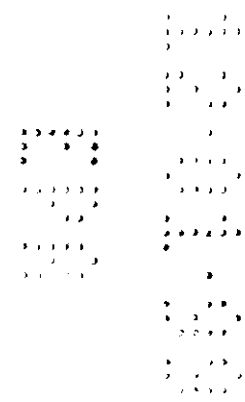
STORAGE AND DISPOSAL

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

Derringer™ 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. Derringer 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 Derringer Herbicide occur within 2 to 4 days after application under good growing conditions.

This product is nonselective and will injure or kill all green vegetation contacted by the spray. Avoid all contact with foliage or green tissue of desirable vegetation. Avoid direct spray contact with green, thin, or uncalloused bark of desirable vegetation or plant injury may result. If desirable vegetation is contacted, rinse the sprayed portion with water immediately.

Derringer 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.

For use on plants in non-crop and non-timber areas only. Not for use on crops, timber, or other plants being grown for sale or other commercial use, or for commercial seed production, or for research purposes.

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

GENERAL USE SITES

Industrial Areas

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, 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.

When applied as recommended in this label, Derringer 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.

WHEN TO APPLY

Derringer Herbicide is a foliar-active material. 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 of the highest rate recommended. Refer to the *How to Apply* section of this label.

Derringer Herbicide should be applied at the rate recommended in the *How to Apply* section of this label. Repeat applications of Derringer Herbicide or tank mixes of Derringer 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.

HOW TO MIX

Derringer 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, then mix thoroughly.

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 Derringer Herbicide in water at the amounts indicated in the following table:

Percent Spray Solution	Amount of Derringer Herbicide to Make the Following Volume of Spray Solution:		
	1 Gallon	25 Gallons	100 Gallons
1 %	1½ fl oz	2 pints	1 gallon
1½%	2 fl oz	3 pints	1½ gallons
2½%	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.

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.

Aerial Applications

Apply as a foliar treatment using a minimum of 5 gallons of water per 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. 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.

Tank Mix Recommendations for Noncrop Uses

Derringer Herbicide is compatible in tank mixes with many other herbicides. Follow the more restrictive label limitations and use precautions for each product. No label dosage rates should be exceeded.

Tank mix applications of Derringer Herbicide plus the following herbicides are recommended for broad spectrum postemergence and preemergence weed control.

Arsenal [®] Herbicide	Pendulum [®] WDG Herbicide
Barricade [®] 65WG Herbicide	Surflan A.S [®] Specialty Herbicide

Compatibility of Derringer Herbicide and clay-based dry flowable herbicides should be determined in a jar test before tank mixing. A quart jar compatibility test should be conducted as follows:

1. Fill the jar three-quarters full with water
2. Add the appropriate amount of herbicide in the following order: (a) dry flowable, (b) wettable powder, (c) aqueous suspensions, (d) flowables, (e) liquids and (f) solutions and emulsifiable or liquid concentrates. Shake or gently stir jar after each addition to thoroughly mix.
3. After adding all ingredients, let the mixture stand for 15 minutes and then look for separation, large flakes, precipitates, gels, heavy oily film on the jar or other signs of incompatibility.
4. If the compatibility test shows signs of incompatibility, do not tank mix the product tested with Derringer Herbicide.

Weeds Controlled by Derringer Herbicide

Lower Rate Use

For spot application:

Apply a 1% to 2½% spray solution of Derringer Herbicide.

For broadcast application:

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

Apply 4 quarts 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)
- marestail
- purslane
- shepherdspurse
- smartweed

Grasses and Sedges

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

Higher Rate Use

For spot application:

Apply a 3% to 6% spray solution of Derringer Herbicide

For broadcast application:

Apply 4 quarts per acre when the weed height or diameter is less than 8 inches tall.

Apply 6 quarts 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

Grasses and Sedges

- annual bluegrass
- bahiagrass
- barley
- Bermudagrass
- carpetgrass
- crabgrass
- dallisgrass
- downy brome
- fescue
- guineagrass
- Kentucky bluegrass
- nutsedge
- paragrass
- quackgrass
- ryegrass
- sandbur

Broadleaf Weeds
(continued)

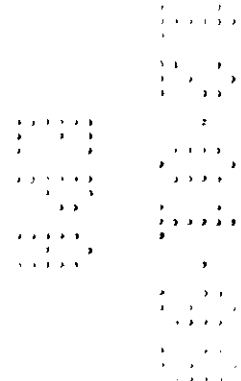
- nettle
- nightshade
- pennycress
- pigweed, red root
- plantain
- prickly lettuce
- ragweed
- Russian thistle
- tansy mustard
- velvetleaf
- vervain
- Virginia cooperleaf
- white heath aster
- wild buckwheat
- wild mustard
- wild onion
- wild rose
- wild turnip
- woodsorrel
- yellow rocket

Grasses and Sedges
(continued)

- smooth brome grass
- torpedograss
- vaseygrass
- wheat
- wild oat

Use Notes

1. Use higher rates within the recommended rate range for plant sizes listed when vegetation cover is dense or when weeds are growing under stressed conditions such as drought or when average temperatures are below 50°F.
2. The addition of 8.5 to 17 pounds of ammonium sulfate (spray grade) per 100 gallons of water (1 to 2% by weight) or 2 to 4 pounds of ammonium sulfate per acre may improve the level of weed control.



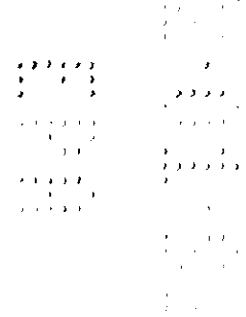
Use on Woody Species

When applied as recommended, Derringer 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 vegetation growth is heavy or dense. Lower recommended rates may be used when the target species is a conifer and when vegetation growth conditions allow for uniform spray coverage.

blackberry	<i>Rubus</i> spp.
deer brush	<i>Ceanothus integerrimus</i>
Douglas fir	<i>Pseudotsuga menziesii</i>
gallberry	<i>Ilex</i> spp.
hazel	<i>Corylus</i> spp.
honeysuckle	<i>Lonicera</i> spp.
huckleberry	<i>Gaylussacia</i> spp.
maple	<i>Acer</i> spp.
multiflora rose	<i>Rosa multiflora</i>
oak	<i>Quercus</i> spp.
pine	<i>Pinus</i> spp.
poison ivy	<i>Toxicodendron radicans</i>
poison oak	<i>Toxicodendron toxicarium</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>
trumpet creeper	<i>Campsis radicans</i>
vine maple	<i>Acer circinatum</i>
Western red cedar	<i>Thuja plicata</i>

USE PRECAUTIONS

1. **DO NOT** apply this product through any type of irrigation system.
2. **DO NOT** apply directly to or allow drift to contact desirable green tissue or green, thin, or uncalloused bark of desirable vegetation.
3. Derringer 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.
4. **DO NOT** allow grazing of vegetation treated with this product.



IMPORTANT: READ BEFORE USE

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once.

By using this product, user or buyer accepts the following Conditions, 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, it is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of AgrEvo USA Company. All such risks shall be assumed by the user or buyer.

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- Surflan is a registered trademark of Dow AgroSciences.
- Viton is a registered trademark of DuPont Company.
- Derringer is a trademark of AgrEvo Environmental Health, Inc.

Label Code: P991127