

432-1228

11-28-2000

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US ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF PESTICIDES PROGRAMS
REGISTRATION DIVISION (75-767)
WASHINGTON, DC 20460

| | |
|---|---------------------------------|
| EPA REGISTRATION NO. 432-1228 | DATE OF ISSUANCE NOV 28 2000 |
| TERM OF ISSUANCE Conditional | |
| NAME OF PESTICIDE PRODUCT Derringer [™] Herbicide | |

NOTICE OF PESTICIDE: REGISTRATION
 REREGISTRATION
(Under the Federal Insecticide, Fungicide,
and Rodenticide Act, as amended)

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

Aventis Environmental Science USA, LP
95 Chestnut Ridge Road
Montvale, NJ 07645

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 registered in accordance with FIFRA Section 3(c)(5) provided that you:

1. Add the phrase "EPA Registration No. 432-1228" to the label before you release the product for shipment.
2. Submit and/or cite all data required for registration/reregistration of your product when this Agency requires all registrants of similar products to submit data.
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.

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

Enclosure

ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL

Joanne I. Miller

DATE
NOV 28 2000

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DERRINGER™ HERBICIDE

FOR NONSELECTIVE WEED CONTROL OF EMERGED WEEDS IN NONCROP AREAS

| | |
|--|-----------------------|
| ACTIVE INGREDIENT: Glufosinate-ammonium* | 11.33%** |
| OTHER INGREDIENTS: | 88.67% |
| *CAS Number 77182-82-2 (Protected by U.S. Patent No 4,400,196) | |
| **Equivalent to 1.00 pound of active ingredient per U.S. gallon. | TOTAL 100.00% |
| EPA Reg. No. 432- 900 <i>ROE L</i> | EPA Est. No. 407-IA-2 |

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.)

IN CASE OF MEDICAL, ENVIRONMENTAL, OR TRANSPORTATION EMERGENCIES OR INQUIRIES, CALL 1-800-334-7577
For product inquiry information, call 1-800-331-2867

FIRST AID

| | |
|---------------|---|
| If swallowed: | Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to by a poison control center or doctor. |
| If in eyes: | Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Call a poison control center or doctor for treatment advice. |
| If on skin: | Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. |
| If inhaled: | Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice. |

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 1-800-334-7577 immediately for further information.

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

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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 condition 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 |

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:

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, and 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 1% spray solution of Derringer™ Herbicide when the weed height or diameter is less than 6 inches.
Apply 2½% spray solution of Derringer™ Herbicide when the weed height or diameter is 6 inches or greater.

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 | Grasses and Sedges |
|-----------------------|------------------------|
| chickweed | barnyardgrass |
| clover | cupgrass |
| common cocklebur | fall panicum |
| filaree | giant foxtail |
| jimsonweed | goosegrass |
| kochia | green foxtail |
| London rocket | Johnsongrass (rhizome) |
| malva (little mallow) | lovegrass |
| marehail | shattercane |
| purslane | stinkgrass |
| shepherdspurse | windgrass |
| smartweed | yellow foxtail |

Weeds Controlled by Derringer™ Herbicide (Higher Rate Use)

For spot application:

Apply 3% spray solution of Derringer™ Herbicide when the weed height or diameter is less than 6 inches.
Apply 4% spray solution of Derringer™ Herbicide when the weed height or diameter is 6 inches or greater.

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 | Grasses and Sedges |
|-------------------|--------------------|
| annual sowthistle | annual bluegrass |
| bindweed | bahiagrass |
| buffalobur | barley |
| burdock | Bermudagrass |
| Canada thistle | carpetgrass |
| curly dock | crabgrass |
| dandelion | dallisgrass |
| dogbane (hemp) | downy brome |
| field gromwell | fescue |
| fleabane | guineagrass |
| goldenrod | Kentucky bluegrass |
| horsetail | nutsedge |
| lambsquarters | paragrass |
| leafy spurge | quackgrass |
| mugwort | ryegrass |
| musk thistle | sandbur |
| nettle | smooth brome |
| nightshade | torpedograss |
| pennycress | vaseygrass |
| pigweed, red root | wheat |
| plantain | wild oat |
| 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

Use Notes

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.

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 higher 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

DO NOT apply this product through any type of irrigation system.

DO NOT apply directly to or allow drift to contact desirable green tissue or green, thin, or uncalloused bark of desirable vegetation.

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.

DO NOT allow grazing of vegetation treated with this product.

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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 Aventis Environmental Science USA, LP. 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 the Aventis Group

Aventis Environmental Science USA LP
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**ACCEPTED
with COMMENTS
In EPA Letter Dated**

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