

OCT 10 1997

Fred J. Pearson
Zeneca Ag Products
1800 Concord Pike
P.O. Box 15458
Wilmington, DE 19850-5458

Dear Mr. Pearson:

Subject: Revised Cranberry Directions
Devrinol 10-G Selective Herbicide
EPA Registration No. 10182-253
Your Submission Dated September 23, 1997

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended is acceptable provided that you:

1. Make the labeling changes listed below before you release the product for shipment bearing the amended labeling:

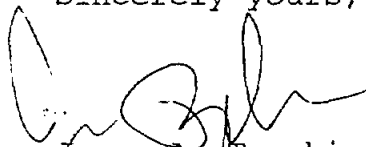
a. The Agricultural Use Requirements section must be clearly distinguished from other text by a box, contrasting color or other graphical device.

b. On page 9 there is a duplicate heading DIRECTIONS FOR USE that should be deleted.

2. Submit one (1) copy of your final printed labeling before you release the product for shipment.

A stamped copy of the labeling is enclosed for your records.

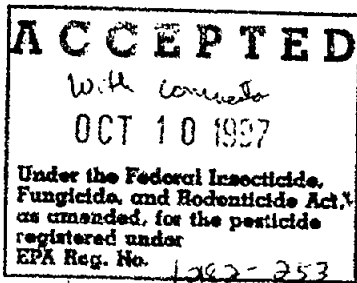
Sincerely yours,



James A. Tompkins
Product Manager (25)
Herbicide Branch
Registration Division (7505C)

Enclosure

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DEVIRINOL® 10-G
Selective Herbicide
Granules

For Use On Certain Citrus, Nuts, Pome fruits,
Small fruits, Stone fruits, Strawberries, Grapes and Tobacco

ACTIVE INGREDIENT

N,N-diethyl-2-(1-naphthalenyloxy)-propionamide 10.0%

INERT INGREDIENTS 90.0%
100.0%

Contains 10 lbs. of active ingredient per 100 pounds

EPA Reg. No. 10182-253
EPA Est. No.

____ LBS. NET ____ KG.

KEEP OUT OF REACH OF CHILDREN

CAUTION

MAY BE HARMFUL IF SWALLOWED

Made in U.S.A.
ZENECA Ag Products
ZENECA Inc.
Wilmington, DE 19850-5458

This product is sold only for uses stated on its label. No express or implied license is granted to use or sell this product under any patent in any country except as specified: Country: United States Patent No.: 3,480,671; 3,718,455

STATEMENT OF PRACTICAL TREATMENT

FIRST AID: If an adverse reaction occurs after exposure, promptly start the recommended procedures below. Seek medical attention if further treatment is required.

IN CASE OF CONTACT: Flush eyes and skin with plenty of water for several minutes. Get medical attention if eye or skin irritation occurs.

IF SWALLOWED: Immediately give several glasses of water and induce vomiting by gagging the victim with a finger placed on the back of the victim's tongue. Give fluids until vomitus is clear. If victim is unconscious or convulsing, do not induce vomiting or give anything by mouth.

IF INHALED: Remove to fresh air. Seek medical attention if respiratory irritation occurs or if breathing becomes difficult.

FOR 24-HOUR EMERGENCY MEDICAL ASSISTANCE, CALL (800)-F-A-S-T-M-E-D (327-8633)

FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident call CHEMTREC 1-800-424-9300.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

HARMFUL IF SWALLOWED.

Avoid contact with eyes, skin and clothing. Avoid inhalation of dust.

PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants.
- Shoes plus socks.

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.

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

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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 contaminate water when disposing of equipment washwaters. Do not apply when weather conditions favor drift from areas treated. Do not contaminate irrigation water or water used for domestic purposes.



**CONDITIONS OF SALE
AND LIMITATION OF WARRANTY AND LIABILITY**

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product should be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of ZENECA or Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold ZENECA and Seller harmless for any claims relating to such factors.

ZENECA warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or ZENECA, and Buyer and User assume the risk of any such use. ZENECA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

In no event shall ZENECA or Seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF ZENECA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF ZENECA OR SELLER, THE REPLACEMENT OF THE PRODUCT.

ZENECA and Seller offer this product, and Buyer and User accept it, subject to the foregoing conditions of sale and limitations of warranty and of liability, which may not be modified except by written agreement signed by a duly authorized representative of ZENECA.

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DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

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.

GENERAL USE PRECAUTIONS

- Read all label directions before using.
- Use only for recommended purposes and at recommended rates. Do not overdose.
- DEVIRINOL® 10-G herbicide is recommended for use on mineral soils only. Not recommended for use on soils with over 10% organic matter.
- Treating ground heavily covered with leaves or trash may adversely affect weed control.
- Do not apply to frozen ground.
- To avoid injury to crops not specified on this label, do not plant until 12 months after the last DEVIRINOL 10-G herbicide application. A deep disc plow or moldboard plow operations must be carried out before planting.

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 interval. 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.

Exception: If the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

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.
- Waterproof gloves.
- Shoes plus socks.

DEVIRINOL 10-G is a selective surface-applied herbicide for use in certain citrus, nuts, pome fruits, small fruits, stone fruits, strawberries and direct seeded tobacco plantbeds. direct-seeded tobacco plantbeds in Indiana, Kentucky, Maryland, Massachusetts, Ohio, Pennsylvania, Tennessee, Virginia and West Virginia and certain types of newly-planted or established crops. DEVIRINOL 10-G does not control established weeds. All weed growth and crop stubble in the fields must be thoroughly worked into the soil prior to planting. Application equipment should be carefully calibrated before use and checked frequently during application to be sure equipment is free from clogging and is delivering a uniform pattern. Apply the recommended rate of DEVIRINOL 10-G by ground or air equipment.

NOTE: All rates are given on a broadcast per acre basis. Reduce rates proportionately for band or strip treatment.

A surface application of 40 lbs. DEVIRINOL 10-G will control the following weeds:

WEEDS CONTROLLED BY DEVIRINOL 10-G	
ANNUAL GRASSES:	
Barnyardgrass, Junglerice	<i>Echinochloa</i> spp.
Wild Barley	<i>Hordeum Leporinum</i>

WEEDS CONTROLLED BY DEVRINOL 10-G	
Annual Bluegrass	<i>Poa Annua</i>
Bromes	<i>Bromus</i>
Cheatgrass	<i>B. Secalinus</i>
Downy Brome	<i>B. Tectorum</i>
Rigput Brome	<i>B. Rigidus</i>
Soft Chess	<i>B. Mollis</i>
Large (Hairy) Crabgrass	<i>Digitaria Sanguinalis</i>
Smooth Crabgrass	<i>Digitaria Ischaemum</i>
Southwestern Cupgrass	<i>Eriochloa Gracilis</i>
Foxtails	<i>Setaria</i>
Bristly Foxtail	<i>S. Verticilla</i>
Giant Foxtail	<i>S. Faberi</i>
Green Foxtail	<i>S. Viridis</i>
Yellow Foxtail	<i>S. Lutescens</i>
Goosegrass	<i>Eleusine Indica</i>
Seedling Johnsongrass	<i>Sorghum Halepense</i>
Wild Oats	<i>Avena Fatua</i>
Panicums	<i>Panicum</i>
Guineagrass	<i>P. Maximum</i>
Fall Panicum	<i>P. Dichotomiflorum</i>
Texas Panicum	<i>P. Texanum</i>
Witchgrass	<i>P. Capillare</i>
Italian Ryegrass	<i>Lolium Multiflorum</i>
Sandbur	<i>Cenchrus spp.</i>
Red Sprangletop	<i>Leptochloa Filiformis</i>
Stinkgrass	<i>Eragrostis Cilianensis</i>
ANNUAL BROADLEAF WEEDS:	
Carpetweed	<i>Mollugo Verticillata</i>
Common Chickweed	<i>Stellaria Media</i>

WEEDS CONTROLLED BY DEVIRINOL 10-G	
Coast Fiddleneck	<i>Amsinckia Intermedia</i>
Filaree	<i>Erodium spp.</i>
Groundsel	<i>Senecio spp.</i>
Prostrate Knotweed	<i>Polygonum Aviculare</i>
Lambsquarters	<i>Chenopodium Album</i>
Prickly Lettuce	<i>Lactuca Serriola</i>
Little Mallow*	<i>Malva Parviflora</i>
Redroot Pigweed	<i>Amaranthus Retroflexus</i>
Pineappleweed	<i>Matricaria Matricarioides</i>
Common Purslane	<i>Portulaca Oleracea</i>
Horse Purslane	<i>Trianthema Postullacastrum</i>
Common Ragweed**	<i>Ambrosia Artemisiifolia</i>
Annual Sowthistle	<i>Sonchus Oleraceus</i>

*From Seed

**Suppression

NOTE: See Recommendations Section for weeds controlled in Cranberries.

NOTE: DEVIRINOL 10-G does not control established weeds.

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DIRECTIONS FOR USE

For control of all weeds listed, apply 40 pounds of DEVRINOL 10-G per acre to a weed free soil surface. Apply in the fall through early spring prior to weed emergence. For best results, the treatment must reach the zone of weed seed germination. If rainfall does not occur, the treatment must be shallowly incorporated or irrigated-in (sprinkler or flood) following application with sufficient water to wet the soil to a depth of 2 to 4 inches. In the Western and Pacific Northwest Regions treatments made in fall through early spring must be incorporated or irrigated-in if no rainfall occurs within two weeks of application. For treatments made other than in fall through early spring in these Regions, and for all treatments applied in the Northern, Southwestern and Southeastern Regions regardless of season, the treatment must be incorporated or irrigated-in within 24 hours if no rainfall occurs.

Avoid contact with fruit or foliage. Do not apply when fruit or nuts are on the ground during the harvest period. Do not graze treated areas.

RECOMMENDATIONS

Application may be made immediately after planting, except where treatment is restricted to established crops only. For these uses, apply to stands that have been established in the field for at least one year.

TREES AND VINES:

Apples, Apricots, Cherries, Filberts, Grapefruit, Grapes, Lemons, Nectarines, Oranges, Peaches, Pears, Pecans, Plums, Prunes, Tangerines and Walnuts. Apply 40 pounds DEVRINOL 10-G per acre to a weed free soil surface.

STRAWBERRIES:

Apply 40 pounds DEVRINOL 10-G per acre to a weed free soil surface. Delay application until the desired number of daughter plants have become established. Do not apply from bloom through harvest.

BUSH FRUIT:

Blueberries and Caneberries (Blackberries, Raspberries, Boysenberries, Loganberries). Apply 40 pounds DEVRINOL 10-G per acre to a weed free soil surface.

CRANBERRIES:

~~CAUTION: Do not apply in the springtime to bogs that do not have sprinkler systems for frost control.~~

~~Massachusetts (Established Bogs Only): For control of nutsedge (*Cyperus dentatus*) and Rice Cutgrass (*Leersia oryzoides*), apply 60-80 pounds DEVRINOL 10-G per acre to a weed free soil surface before spring growth begins or in the fall after harvest.~~

~~New Jersey (Established Bogs Only): For control of nutsedge (*Cyperus dentatus*), Rice Cutgrass (*Leersia oryzoides*) and Purplestem Beggarticks (*Bidens connata*), apply 60-90 pounds DEVIRINOL 10-G per acre to a weed free soil surface before spring growth begins or in the fall after harvest.~~

~~Oregon and Washington (Established Bogs Only): For control of Clover (*Trifolium fimbriatum*), Aster (*Aster douglasii*), Silverweed Cinquefoil* (Silverleaf) (*Potentilla anserina*), Red Sorrel (Sheep Sorrel) (*Rumex acetosella*) and Birdsfoot Trefoil (*Lotus corniculatus*).~~

~~In peat beds: Apply 150 pounds DEVIRINOL 10-G per acre to a weed free soil surface before spring growth begins in Mid-February or before the end of March. Do not apply after buds start to swell.~~

~~In sand beds: Apply 40-90 pounds DEVIRINOL 10-G per acre to a weed free soil surface before spring growth begins Mid-February or before the end of March. Use the lower rate on one-year old beds only. Do not apply after buds start to swell. For further information, consult your local Ag-Extension Service.~~

*Suppression only

~~Wisconsin: For control of Purplestem Beggarticks (*Bidens connata*) and Rice Cutgrass (*Leersia oryzoides*) in:~~

~~New Plantings: Apply 30 pounds DEVIRINOL 10-G per acre to a weed free soil surface in the spring after setting vines.~~

~~Established Plantings: Apply 60 pounds DEVIRINOL 10-G per acre to a weed free soil surface before spring growth begins or in the fall after harvest. Do not apply when bogs are under winter flood.~~

~~Cranberries: CAUTION: Do not apply in the springtime to cranberry beds that do not have sprinkler systems for frost control.~~

~~Northeast (Connecticut, Delaware, Massachusetts, Maryland, Maine, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont, West Virginia)~~

~~Established beds (over one year old)~~

~~For control of nutsedge (*Cyperus dentatus*) and rice cutgrass (*Leersia oryzoides*) and purplestem beggarticks (*Bidens connata*), apply DEVIRINOL 10-G at the rates indicated below to a weed free soil surface before spring growth begins or in the fall after harvest. Do not apply when beds are under winter flood.~~

~~In Peat Beds: Apply 60-90 pounds DEVIRINOL 10-G per acre.~~

~~In Beds with Sandy Soils: Apply 40-60 pounds DEVIRINOL 10-G per acre.~~

~~New Plantings~~

~~Apply 30 pounds DEVIRINOL 10-G per acre to a weed free soil surface after planting.~~

North Central (Michigan, Minnesota, North Dakota, South Dakota, Wisconsin)

Established beds (over one year old)

For control of purplestem beggarticks (*Bidens connata*) and rice cutgrass (*Leersia oryzoides*), apply DEVIRINOL 10-G at the rates indicated below to a weed free soil surface before spring growth begins or in the fall after harvest. Avoid applying when beds may be reflowed for spring frost protection or when soils are water soaked. Do not apply when beds are under winter flood.

In Peat Beds: Apply 60-90 pounds DEVIRINOL 10-G per acre.

In Beds with Sandy Soils: Apply 40-60 pounds DEVIRINOL 10-G per acre.

New Plantings

Apply 30 pounds DEVIRINOL 10-G per acre to a weed free soil surface after planting.

West (California, Idaho, Montana, Oregon, Washington)

Established beds (over one year old)

For control of clover (*Trifolium fimbriatum*), aster (*Aster douglasii*), silverweed cinquefoil* (silverleaf) (*Potentilla anserina*), red sorrel (sheep sorrel) (*Rumex acetosella*) and bird-foot trefoil (*Lotus corniculatus*), apply DEVIRINOL 10-G at the rates indicated below to a weed free soil surface before spring growth begins in mid-February or before the end of March. Do not apply after buds start to swell.

In Beds with Heavy Muck Soil: Apply 90 to 150 pounds of DEVIRINOL 10-G per acre.

In Peat Beds: Apply 60 to 90 pounds DEVIRINOL 10-G per acre.

In Beds with Sandy Soils: Apply 40-90 pounds DEVIRINOL 10-G per acre.

New Plantings

Apply 30 pounds DEVIRINOL 10-G per acre to a weed free soil surface after planting.

***Suppression only**

MINT:

Established mint (Pacific Northwest only). Apply 40 pounds DEVIRINOL 10-G per acre to a weed free soil surface.

TOBACCO:

Direct-seeded Plantbeds (Indiana, Kentucky, Maryland, Massachusetts, Ohio, Pennsylvania, Tennessee, Virginia and West Virginia). Apply 13.6 pounds DEVIRINOL 10-G per broadcast acre or 6.0 oz. DEVIRINOL 10-G per 1,200 sq. ft.

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DEVROLIN 10-G
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USE RECOMMENDATIONS:

- For control of white clover (*Trifolium repens*), apply to a weed-free soil surface.
- Lightly incorporate or sprinkler irrigate within 24 hours using sufficient water to wet the soil to a 2 to 4 inch depth.

STORAGE AND DISPOSAL

PROHIBITIONS: Do not contaminate water, food or feed by storage or disposal.

STORAGE: Keep container closed when not in use. Store in a cool dry place. Do not store near seeds, fertilizer or foodstuffs.

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: Completely empty bag or cardboard container into application equipment. Then dispose of empty bag or cardboard container in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke. ✓

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