



# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

JAN 3 1 1994

Nancy L. Bockrath
ZENECA INC.
ZENECA AG PRODUCTS
New Murphy Road & Concord Pike, Box 751
Wilmington, DE 19897

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

Subject:

Label Amendment Submission of 08/19/93 in Response to PR Notice 93-7

EPA Reg. No. 10182-243

**DEVRINOL 2-G ORNAMENTAL SELECTIVE HERBICIDE** 

# Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is accepted subject to the comments reflected on the enclosed sheet. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

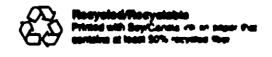
#### WHAT THIS ACCEPTANCE MEANS:

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the Worker Protection Standard (WPS) labeling requirements of 40 CFR part 156, subpart K, described in PR Notices 93-7 and 93-11. Any other labeling changes submitted in connection with this amendment application but not directly related to compliance with the WPS have not been reviewed or accepted by the Agency. If you wish to make such changes, you must submit a separate amendment application proposing them. If your product is currently suspended, the acceptance of this labeling amendment does not affect the suspension in any way.

#### WHAT YOU NEED TO DO NEXT:

By the next label printing make all the specified changes to your labeling. Send to EPA one (1) copy of the final printed labeling:

- BEFORE selling or distributing any product bearing the final printed labeling
   AND
- WITHIN one year from date of this acceptance.



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Submit the final printed labeling via the U.S. Postal Service to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs (7505C)
U.S. Environmental Protection Agency
401 M Street, SW
Washington, D.C. 20460-0001

Hand or courier deliveries of final printed labeling may be made to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs
Room 266A, Crystal Mall 2
1921 Jefferson Davis Highway
Arlington, VA 22202

Sincerely,

Jim Tompitins, Deputy Chief Registration Support Branch Registration Division (7505W)

Attachment

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# DEVRINOL® 2-G ORNAMENTAL Selective Herbicide

A Preemergence Herbicide for Weed Control in Home Flower Gardens and Landscape Plantings. Use in Deciduous and Evergreen Trees and Shrubs, Ground Covers, Perennial Flowers, Fruit and Nut Crops, Container Grown Plants, and Turfgrass

ACHTE INGREDIERI:	
N, N-diethyl-2-(1-naphthalenyloxy)-propionamide	2.0%
INERT INGREDIENTS:	98.0%
	0000

Contains 2 Pounds of Active Ingredient per 100 Pounds

EPA Reg. No.: 10182-243

ACTIVE INCOCNENT.

EPA Est. No.:

# **KEEP OUT OF REACH OF CHILDREN**

CAUTION

Made in U.S.A.
ZENECA Ag Products
ZENECA Inc.
Wilmington, DE 19897

ACCEPTED
with CONDIENTS
In EPA Letter Duted

JAN 3 | 1994
Under the Federal Insecticide.
Fundicide, and Redeuticide Act
as amended, for the posticide
registered under EPA Reg. No.

#### STATEMENT OF PRACTICAL TREATMENT

If an adverse reaction occurs after exposure, promptly initiate the recommended procedures below. If further treatment is required, seek medical attention.

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 placing a finger on the back of the victim's tongue. Give fluids until vomitus is clear. Do not induce vomiting or give anything by mouth to an unconscious or convulsing person.

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 1-800-F-A-S-T-M-E-D (1-800-327-8633)

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

For other product information, contact your local ICI Americas Distributor or see Material Safety Data Sheet

#### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

#### CAUTION

MAY BE HARMFUL IF SWALLOWED. Do not breathe dust. Avoid contact with skin, eyes and clothing. Wash thoroughly with seap and water after use. Avoid contamination with food and feed.

#### 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.

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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.

## **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 lakes, streams, and/or ponds. Do not contaminate irrigation water or water used for domestic purposes.

#### **GENERAL PRECAUTIONS**

- · Read all instructions before using.
- Use only for recommended purposes and at recommended rates.
- Do not overdose.

#### **DIRECTIONS FOR USE**

# WHAT THIS PRODUCT DOES

DEVRINOL 2-G ORNAMENTAL controls certain annual grassy and broadleaf weeds as they germinate. It does not control established weeds. The weeds controlled are listed below:

WEEDS CONTROLLED BY DEVRINOL 2-G ORNAMENTAL		
ANNUAL GRASSES:		
Barnyardgrass, Junglerice	Echinochloa spp.	
Wild Barley	Hordeum leporinum	
Annual Bluegrass	Poa annua	
Bromes	Bromus	
Cheatgrass	B. secalinus	
Downy Brome	B. tectorum	
Ripgut Brome	B. rigidus	
Soft Chess	B. mollis	
Large (Hairy) Crabgrass	Digitaria sanguinalis	
Smooth Crabgrass	Digitaria ischaemum	
Southwestern Cupgrass	Eriochloa gracilis	
Foxtails	Setaria	
Bristly Foxtail	S verticilla	
Giant Foxtail	S. faberi	
Green Foxtail	S. viridis	
Yellow Foxtail	S. lutescens	
Goosegrass	Eleusine indica	
Seedling Johnsongrass	Sorghum halepense	
Wild Oats	Avena fatua	

WEEDS CONTROLLED BY DEVRINOL 2-G ORNAMENTAL		
Panicums	Panicum	
Guineagrass	P. Paximum	
Fall Panicum	P. dichotomiflorum	
Texas Panicum	P. texanum	
Witchgrass	P. capillare	
Italian Ryegrass	Lolium multiflorum	
Sandbur	Cenchrus spp.	
Red Sprangletop	Leptochloa filiformis	
Stinkgrass	Eragrostis cilianensis	
ANNUAL BROADLEAF WEEDS:		
Carpetweed	Mollugo verticillata	
Common Chickweed	Stellaria media	
Coast Fiddleneck	Amsinckia intermedia	
Filaree	Erodium spp.	
Groundsel	Senecio spp.	
Prostrate Knotweed	Polygonum aviculare	
Lambsquarters	Chenopodium album	
Prickly Lettuce	Lactuca serriola	
Little Mallow*	Malva parviflora	
Redroot Pigweed	Amaranthus retroflexus	
Pineappleweed	Matricaria matricarioides	
Common Pursiane	Portulaca oleracea	
Horse Pursiane	Trianthema portullacastrum	
Common Ragweed**	Ambrosia artemisiifolia	
Annual Sowthistle	Sonchus oleraceus	

<sup>\*</sup>From seed

<sup>\*\*</sup>Suppression

#### WHERE TO USE THIS PRODUCT

DEVRINOL 2-G Omamental can be applied over small omamental plants or around larger plants in rose gardens, container plantings, ornamental landscapes and ground covers including dichondra.

Use DEVRINOL 2-G Ornamental for weed control in the following plants:

#### Deciduous and Evergreen Trees

Acer **Eucalyptus** Picea Ash Pin Oak Ficus Birch Fir Pinus Black Walnut Gleditsia **Pittosporum** Cedar Hemlock **Podocarpus** Citrus Japanese Larch **Populus** Crataeous Labumum Prunus Cypress Malus Pears Olive (Olea) Dogwood **Pistachios** 

Douglas Fir Palm (Washingtonia robusta)

# **Deciduous and Evergreen Shrubs**

Abelia **Forsythia** Oleander Asparagus (Sprengeri) Gardenia Osmanthus Aucuba Heather (Calluna) **Photinia** Azalea **Hibiscus Pittosporum Bottlebrush** Honeysuckle (Lonicera) **Podocarous** Bougainvillea Hypericum **Pyracantha** Buxus llex Raphiolepis Camellia Juniperus Rhododendron Cotoneaster Leucothe Rosa Crepe Myrtle Ligustrum Star Jasmine Dogwood Nandina Taxus Natal Plum Euonymus Vibumum **Xylosema** 

### **Ground Covers**

Aiuga Hedera Liriope Carpobrotus Hypericum Osteosperma Delosperma Iceplant Pachysandra Dichondra Sedum My Erysimum Lantana Vinca Ganzania

**CONTAINER STOCK** 

Abelia Eucalyptus Pachysandra

Agapanthus Euonymus Palm (Washingtonia robusta)

**Photinia** Fir Ageratum **Forsythia** Pinus spp. **Asparagus Pittosporum** Gardenia Azalea **Podocarous** Geranium **Bottlebrush** Pyracantha Heather Bougainvillea Raphiolepis Hedera Buxus Hibiscus Rhododendron Camellia

Cedar Ilex Rosa
Cotoneaster Juniperus Sedum

Crepe Myrtle Leucothe Star Jasmine

Cypress Ligustrum Thuja
Dogwood Liriope Vinca
Douglas Fir Nandina Xylosema

**Flowers** 

African Daisy Chrysanthemum Narcissus
Aster Dahlia Petunia

Bird of Paradise Daisy Plantain Lily (Hosta)

Geranium Zinnia

Gladiolus

Fruit and Nuts

Almond Lemon Pistachio
Apple Nectarine Plum
Apricot Orange Prune
Cherry Peach Tangerine
Filbert Pear Walnut

Grape Pecan

Strawberry: (Applications should be delayed until the desired number of daughter plants have become established. Do not apply from bloom through harvest.)

#### WHEN TO USE THIS PRODUCT

DEVRINOL 2-G ORNAMENTAL should be used before weeds germinate. It will not control established weeds.

Application can be made anytime of the year to weed-free soil. Fall and winter applications will provide excellent weed control the following spring and summer.

In containers, apply after setting and watering the plants.

#### **HOW TO USE THIS PRODUCT**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Apply this product as specified on this 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 protection 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, rewater, is:

- Coveralis
- Waterproof gloves
- Shoes plus socks.

DEVRINOL 2-G ORNAMENTAL should be spread evenly on the soil surface using a shaker can or granular herbicide applicator.

Do not apply when weather conditions favor drift from areas treated.

When weed infestation is heavy or when broadleaves are the primary weeds, use one pound on 145 square feet (6.9 lbs./1,000 sq. ft.). For annual grassy weeds or when weed infestation is light, use one pound on 218 square feet (4.6 lbs/1,000 sq.ft.).

DEVRINOL 2-G ORNAMENTAL should be incorporated evenly into the soil using a hand cultivator to a depth of 1-2 inches or irrigation or natural moisture (rainfall or snow) (1-2 inches within 2-3 days) for optimum results.

For weed control in dichondra, apply at the time of seeding or to establish dichondra including dichondra sod. Irrigate with a minimum of one inch of water.

# RECOMMENDATIONS: TURF GRASS (For Use on Warm Season Grasses Only)

DEVRINOL 2-G ORNAMENTAL is recommended for annual bluegrass, crabgrass and goosegrass control in the following established turf grasses: bahia, bermudagrass, centipede, St. Augustine and fescue.

#### TIMING OF APPLICATION:

For control of crabgrass and goosegrass, apply DEVRINOL 2-G ORNAMENTAL at the recommended rate. Application should be made 2-3 weeks prior to weed emergence. DEVRINOL 2-G ORNAMENTAL should be applied with a gravity flow drop spreader or a cyclone type spreader. A more uniform application can be made by spreading half the required amount over the area to be treated, then applying the remainder at right angles.

DEVRINOL 2-G ORNAMENTAL requires a minimum of one half (½) inch of rainfall or irrigation 2-3 days after application for adequate control. If irrigation methods are not available, the timing of the application of DEVRINOL 2-G ORNAMENTAL should be moved back several weeks to allow for some rainfall between application and weed germination.

#### **RATES OF APPLICATION:**

For Crabgrass Control: Apply 100 to 150 lbs. of DEVRINOL 2-G ORNAMENTAL uniformly per acre (2.52-3.38\* lbs per 1,000 sq. ft.). Use the higher rate when applying before January 1 (not applicable north of South Carolina or when weed infestation is expected to be heavy).

\*Where a rate range is given, use the higher rate when weed infestation is expected to be heavy.

For Goosegrass Control: Apply 100 to 150 lbs. of DEVRINOL 2-G ORNAMENTAL per acre (2.25-3.38 lbs. per 1,000 sq. ft.). Goosegrass usually starts to germinate 6 to 7 weeks after the start of crabgrass germination.

Split Application for Crabgrass and Goosegrass Control: When both of these weeds are to be controlled, apply 100 lbs. of DEVRINOL 2-G ORNAMENTAL spread uniformly per acre (2.25 lbs. per 1,000 sq. ft.) for crabgrass and another 100 lbs. of DEVRINOL 2-G ORNAMENTAL per acre for goosegrass. Apply 8-10 weeks apart. Timing should be adjusted to the germination of weeds in your area. Split applications give longer and better weed control than one application.

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For Annual Bluegrass (Poa Annua) Control: Annual bluegrass is a winter annual in most of the warm season turf regions; therefore, application of DEVRINOL 2-G ORNAMENTAL should be made in the fall before the annual bluegrass germinates. Apply 100-150 lbs. of DEVRINOL 2-G ORNAMENTAL per acre (2.25-3.38 lbs. per 1,000 sq. ft.).

Reseeding: Do not reseed or overseed within six months after application.

#### STORAGE AND DISPOSAL

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 food stuffs.

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

NOTICE TO BUYER AND SELLER: Seller warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label, when used in accordance with directions under normal conditions of use. 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 Seller and Buyer and User assume the risk of any such use. SELLER DISCLAIMS ALL OTHER WARRANTIES EXPRESSED OR IMPLIED INCLUDING ANY WARRANTY OF FITNESS OR MERCHANTABILITY. SELLER SHALL NOT BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT AND SELLER'S SOLE LIABILITY AND BUYER'S AND USER'S EXCLUSIVE REMEDY SHALL BE LIMITED TO THE REFUND OF THE PURCHASE PRICE.