

Reg # 10182-352

PM-25

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U.S. ENVIRONMENTAL PROTECTION AGENCY OFFICE OF PESTICIDES PROGRAMS REGISTRATION DIVISION (WH-367) WASHINGTON, D.C. 20460	EPA REGISTRATION NO. 10182-352	DATE OF ISSUANCE 29
	TERM OF ISSUANCE	
	NAME OF PESTICIDE PRODUCT Devrinol 50-DF Ornamental Herbicide	

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

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

ICI Americas Inc.
 Agricultural Products
 Wilmington, DE 19897

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 conditionally registered in accordance with FIFRA section 3(c)(7)(A) provided that you:

1. Submit/cite all data required for registration/reregistration of your product under FIFRA Section 3(c)(5) or 4(a) when the Agency requires all registrants of similar products to submit such data.
2. Make the labeling changes listed below before you release the product for shipment:
 - a. Add the phrase "EPA Registration No. 10182-352".
3. Submit five (5) copies of your final printed labeling before you release the product for shipment. Refer to the A-79 enclosure for a further description of final printed labeling.

ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL
 [Handwritten Signature]

DATE
 4/29/92

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If these conditions are not complied with, this registration will be subject to cancellation in accordance with FIFRA sec. 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.

Sincerely yours,

Robert J. Taylor
Product Manager (25)
Fungicide-Herbicide Branch
Registration Division (7505C)

Enclosure

RD:RTaylor:ega:04/21/92:000000

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DEVIRINOL® 50-DF ORNAMENTAL
Selective Herbicide

A Preemergence Herbicide for use on Container-grown Ornamentals,
Field-grown Nursery Stock, Liner Stock, Ground Covers and Turfgrass

ACTIVE INGREDIENT:

N,N-Diethyl-2-(1-naphthalenyloxy)-propionamide 50%

INERT INGREDIENTS: 50%

100%

Contains 50 lbs. of Active Ingredient per 100 lbs.

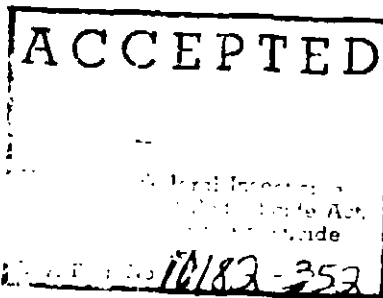
KEEP OUT OF REACH OF CHILDREN

CAUTION

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

___ LB. NET WT. ___ Kg.

Made in U.S.A.
ICI Professional Products
ICI Americas Inc.
Wilmington, Delaware 19897



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STATEMENT OF PRACTICAL TREATMENT

Immediately start the procedures given below and contact a Poison Center, a physician, or the nearest hospital Report the type and extent of exposure, describe the victim's symptoms and follow the advice given.

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. Do not induce vomiting or give anything by mouth to an unconscious or convulsing person.

IF ON SKIN: Flush all affected areas with plenty of water for several minutes. Remove and clean contaminated clothing and shoes. Seek medical attention if skin irritation occurs.

IF IN EYES: Immediately flush eyes with large amounts of running water for 15 minutes. Hold eyelids apart to ensure rinsing of the entire surface of the eye and lids with water. Get medical attention immediately.

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 (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

MAY BE HARMFUL IF SWALLOWED. CAUSES MODERATE EYE INJURY AND SKIN IRRITATIONS. Do not breathe spray mist. Avoid contact with skin, eyes and clothing. Wash thoroughly with soap and water after use.

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. Apply this product as specified on this label.

Do not contaminate water used for domestic purposes

Avoid Contamination of Food and Feed.

GENERAL PRECAUTIONS

Read all instructions before using.

Use only for recommended purposes and at recommended rates.
Do not overdose.

Except where specifically noted, DEVRINOL[®] 50-DF ORNAMENTAL herbicide is not recommended for use on soil containing more than 10% organic matter.

Spraying on ground heavily covered with leaves or trash may adversely affect weed control.

Do not apply to frozen ground.

DIRECTIONS FOR USE

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

DEVIRINOL 50-DF ORNAMENTAL does not control established weeds. It must be applied to freshly weeded soil before weeds germinate or during Fall and Winter months.

DEVIRINOL 50-DF ORNAMENTAL can be applied to **newly planted** container stock after soil has settled from first watering field grown nursery stock, dichondra and to established plants.

DEVIRINOL 50-DF ORNAMENTAL needs mechanical incorporation (such as, power tiller), adequate irrigation or natural moisture (rainfall or snow) (1-2 inches within 2-3 days) for optimum results.

DEVIRINOL 50-DF ORNAMENTAL is recommended on several different container potting soil mixtures. These mixtures include those containing 30 percent soil and/or sand and mixtures containing no soil. (Example: perlite, peat, bark, sawdust, and sand.)

Do not apply this product through any type of irrigation system.

WEEDS CONTROLLED BY 8 TO 12 LBS OF DEVIRINOL 50-DF ORNAMENTAL	
ANNUAL GRASSES:	
Barnyardgrass, Junglerice	<i>Echinochloa</i> spp.
Foxtail Barley	<i>Hordeum jubatum</i>
Wild Barley	<i>Hordeum leporinum</i>
Annual Bluegrass	<i>Poa annua</i>
Bromes	<i>Bromus</i>
Cheatgrass	<i>B. secalinus</i>
Downy Brome	<i>B. tectorum</i>
Ripgut Brome	<i>B. rigidus</i>
Soft Chess	<i>B. mollis</i>
Canarygrass	<i>Phalaris canariensis</i>
Large (Hairy) Crabgrass	<i>Digitaria sanguinalis</i>
Smooth Crabgrass	<i>Digitaria ischaemum</i>
Southwestern Cupgrass	<i>Eriochloa gracilis</i>

WEEDS CONTROLLED BY 8 TO 12 LBS OF DEVRIKOL 50-DF ORNAMENTAL	
Foxtail	<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. Paximum</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>
Mexican Sprangletop	<i>Leptochloa uninervia</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>
Coast Fiddleneck	<i>Amsinckia intermedia</i>
Cudweed, Purple	<i>Gnaphalium purpureum</i>
Redstem Filaree	<i>Erodium cicutonium</i>
Common Groundsel	<i>Senecio vulgaris</i>
Prostrate Knotweed	<i>Polygonum aviculare</i>
Lambsquarters	<i>Chenopodium album</i>
Prickly Lettuce	<i>Lactuca serriola</i>
Little Mallow*	<i>Malva parviflora</i>

WEEDS CONTROLLED BY 8 TO 12 LBS OF DEVIRINOL 50-DF ORNAMENTAL	
Redroot Pigweed	<i>Amaranthus retroflexus</i>
Pineappleweed	<i>Matricaria matricarioides</i>
Common Purslane	<i>Portulaca oleracea</i>
Horse Purslane	<i>Trianthema portulacastrum</i>
Common Ragweed**	<i>Ambrosia artemisiifolia</i>
Annual Sowthistle	<i>Sonchus oleraceus</i>

*From seed
**Suppression

RECOMMENDATIONS

Nursery Stock: Field Grown

Consult list of plant species on which DEVIRINOL 50-DF ORNAMENTAL can be used.

Apply DEVIRINOL 50-DF ORNAMENTAL as a broadcast treatment over young nursery stock or as a directed application to larger stock either as a band or broadcast application.

Application can be made any time of the year to weed free soil; however, since DEVIRINOL 50-DF ORNAMENTAL requires 1 to 2 inches of rainfall or irrigation soon after application for adequate weed control, applications should be timed to take advantage of rainfall if irrigation is not available. Fall and Winter applications will provide excellent weed control the following Spring and Summer. A thorough incorporation of DEVIRINOL 50-DF ORNAMENTAL into the soil to a depth of 1 to 2 inches will provide excellent weed control with less rainfall required.

One application of DEVIRINOL 50-DF ORNAMENTAL should provide adequate weed control for a growing season in temperate areas.

Container Grown Ornamentals

Consult list of plant species on which DEVIRINOL 50-DF ORNAMENTAL can be used.

Apply DEVIRINOL 50-DF ORNAMENTAL as a broadcast treatment over the containers.

Normal irrigation or rainfall (if a Fall or Winter application is made in cold areas) should provide sufficient water for satisfactory weed control.

Home Grounds, Highway and Industrial Ornamental Plantings

Use an overall (broadcast) treatment over young ornamentals or as a directed application where larger plants are growing. Irrigate soon after application or apply just before expected rain. Fall through Spring applications are preferred if irrigation is not available or if application is to be made in lower Summer rainfall areas.

Ground Covers

Apply DEVIRINOL 50-DF ORNAMENTAL as a broadcast treatment over the ground covers.

Irrigate immediately with a minimum of 1 inch water or apply when rainfall is expected.

Dichondra

Apply DEVIRINOL 50-DF ORNAMENTAL at the time of seeding, or to established dichondra including dichondra sod.

Irrigate with a minimum of 1 inch of water.

RECOMMENDATIONS FOR USE ON THESE ORNAMENTALS AND NURSERY STOCK AND CONTAINER STOCK

Field Grown Deciduous and Evergreen Trees

- | | | |
|--------------|-----------------------------|-------------|
| Acer | Eucalyptus | Picea |
| Ash | Ficus | Pin Oak |
| Birch | Fir | Pinus |
| Black Walnut | Gleditsia | Pittosporum |
| Cedar | Hemlock | Podocarpus |
| Citrus | Japanese Larch | Populus |
| Crataegus | Laburnum | Prunus |
| Cypress | Malus | Pears |
| Dogwood | Olive (Olea) | Pistachios |
| Douglas Fir | Palm (Washingtonia robusta) | |

Deciduous and Evergreen Shrubs

- | | | |
|-----------------------|------------------------|--------------|
| Abelia | Forsythia | Osmanthus |
| Asparagus (Sprengeri) | Gardenia | Photinia |
| Aucuba | Hibiscus | Podocarpus |
| Azalea | Honeysuckle (Lonicera) | Pyracantha |
| Bottlebrush | Hypericum | Raphiolepis |
| Bougainvillea | Ilex | Rhododendron |
| Buxus | Juniperus | Rosa |
| Camellia | Leucothea | Star Jasmine |
| Cotoneaster | Ligustrum | Taxus |
| Crepe Myrtle | Nandia | Viburnum |
| Dogwood | Natal Plum | Xylocopa |
| Euonymus | Oleander | |

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.)

Ground Covers

- | | | |
|-------------|-----------|-------------|
| Ajuga | Hedera | Liriope |
| Carpobrotus | Hypericum | Osteosperma |
| Delosperma | Iceplant | Pachysandra |
| Dichondra | Ivy | Sedum |
| Erysimum | Lantana | Vinca |
| Ganzania | | |

Container Stock

- | | | |
|---------------|------------|-----------------------------|
| Abelia | Eucalyptus | Pachysandra |
| Agapanthus | Euonymus | Palm (Washingtonia robusta) |
| Ageratum | Fir | Photinia |
| Asparagus | Forsythia | Pinus spp. |
| Azalea | Gardenia | Pittosporum |
| Bottlebrush | Geranium | Podocarpus |
| Bougainvillea | Heather | Pyracantha |
| Buxus | Hedera | Rhododendron |
| Camellia | Hibiscus | Raphiolepis |
| Cedar | Ilex | Rosa |
| Cotoneaster | Juniperus | Sedum |
| Crepe Myrtle | Leucothe | Star Jasmine |
| Cypress | Ligustrum | Thuja |
| Dogwood | Liriope | Vinca |
| Douglas Fir | Nandina | Xylosema |

Flowers

- | | | |
|------------------|----------|-----------------------|
| African Daisy | Dahlia | Narcissus |
| Aster | Daisy | Petunia |
| Bird of Paradise | Geranium | Plantain Lily (Hosta) |

APPLICATION RATES

Annual Weeds: For annual grasses and broadleaf weeds, apply 8 to 12 lbs of DEVIRINOL 50-DF ORNAMENTAL per broadcast are (3 to 4.4 oz. per 2½ gallons water per 1,000 sq. ft.). Do not apply more than 8 lbs of DEVIRINOL 50-DF ORNAMENTAL per acre in California. Use the higher rate when weed populations are heavy or when broadleaves are the primary weeds.

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

DEVIRINOL 50-DF 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 DEVIRINOL 50-DF ORNAMENTAL at the recommended rate. Application should be made 2-3 weeks prior to weed emergence. DEVIRINOL 50-DF ORNAMENTAL should be mixed with enough water to give adequate coverage of the area to be treated (but no less than 80 gallons per acre). Use a lawn type spray gun.

DEVIRINOL 50-DF ORNAMENTAL requires a minimum of one-half (1/2) inch of rainfall or irrigation 2-3 days after application for adequate control. If irrigation methods are not available, the timing of application of DEVIRINOL 50-DF ORNAMENTAL should be moved back several weeks to allow for some rainfall between application and weed germination.

RATES OF APPLICATION

For Crabgrass Control: Apply 4 to 6 lbs. of DEVIRINOL 50-DF ORNAMENTAL per acre in 80-120 gallons of water (1.5 to 2.25 oz. per 2 1/2 gallons of water 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 4 lbs. of DEVIRINOL 50-DF ORNAMENTAL spread uniformly per acre (1.5 oz. per 1,000 sq. ft.) for crabgrass and another 4 lbs. of DEVIRINOL 50-DF ORNAMENTAL per acre for goosegrass. Apply 8 to 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.

For Annual Bluegrass (Poa Annua) Control: Annual bluegrass is a Winter annual in most of the warm season turf regions; therefore, application of DEVIRINOL 50-DF ORNAMENTAL should be made in the Fall before the annual bluegrass germinates. Apply 4 to 60 lbs. of DEVIRINOL 50-DF ORNAMENTAL per acre in 80 to 120 gallons of water (1.5 to 2.25 ozs. per 2 1/2 gallons of water per 1,000 sq. ft.).

TANK MIXTURES

Observe all cautions and limitations on labeling of all products used in combination.

Make only one application per season.

Do not contaminate water by cleaning of equipment or disposal of wastes. Apply these combinations only as specified on this label.

For tank mixture application, apply the recommended dosage (See Directions for Use) in 80 gallons of water per acre.

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GENERAL TANKMIX DIRECTIONS

Proper care must be used in preparing combination tank mixtures to avoid incompatibility problems. Fill the spray tank at least 2/3 full of water. Start agitation and continue moderate agitation throughout mixing and application. Add, mix and disperse wettable powders first and flowable products next. Make sure each product is thoroughly wetted and dispersed prior to addition of the next product. Complete filling the tank with water, mix thoroughly, and maintain moderate agitation to provide a uniform mix during application. The tankmix combination should not be left in the spray tank for prolonged periods; batches should be mixed and applied the same day. All return lines to the tank must discharge below liquid level.

DEVTRINOL 50-DF ORNAMENTAL /BETASAN® 4E-LF COMBINATION

DEVTRINOL 50-DF ORNAMENTAL may be used as a tankmix combination with BETASAN 4-E Herbicide for crabgrass control in the following established turf grass: Bahia, Bermudagrass, Centipede, St. Augustine and Fescue.

DIRECTIONS FOR USE

Apply 4 lbs. of DEVTRINOL 50-DF ORNAMENTAL and 5 qts. of BETASAN 4E-LF per acre using a minimum of 80 gallons of water. Application should be made at least 2 to 3 weeks before the earliest germination date for crabgrass in your area.

The DEVTRINOL 50-DF ORNAMENTAL/BETASAN 4E-LF combination requires a minimum of one-half (1/2) inch of rainfall or irrigation 2 to 3 days after application for adequate control. If irrigation is not available, the application should be delayed several weeks to allow for some rainfall between application and weed germination.

TANK MIXING DIRECTIONS

Add the recommended amount of DEVTRINOL 50-DF ORNAMENTAL to the spray tank while filling with water. After the DEVTRINOL 50-DF ORNAMENTAL is thoroughly wetted out and dispersed in all of the water, then add the recommended amount of BETASAN 4E-LF and mix to provide a uniform dispersion. Apply in at least 80 gallons of water per acre.

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

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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: Do not reuse. 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 authorities, by burning. If burned, stay out of smoke.

IMPORTANT: Read the Entire Directions for Use and the Conditions of Sale and Warranty before using this product.

CONDITIONS OF SALE AND LIMITED WARRANTY:

The Directions for Use of this product are believed to be reliable and should be followed carefully. However, 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 timing and method of application, weather and crop conditions, mixture with other chemicals not specifically recommended or other influencing factors in the use of the product, all of which are beyond the control of the seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold Seller harmless for any claims relating to such factors.

Seller warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label, subject to the inherent risks referred to above, 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 or beyond the control of 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.

When Buyer or User claims losses or damages resulting from the use or handling of this product (including claims based on contract, negligence, strict liability or other legal theories), Buyer or User must promptly notify in writing Seller of any claims to be eligible to receive either of the remedies set forth below. The EXCLUSIVE REMEDY OF BUYER OR USER and the LIMIT OF LIABILITY of Seller will be, at the election of Seller, refund of the purchase price paid for product bought, or replacement of amount of product used. 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.

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