

(Stauffer Shield)

DEVIRINOL® 5-G ORNAMENTAL

Selective Herbicide

A Pre-Emergence Herbicide For Weed Control In Container-Grown Ornamentals, Field-Grown Nursery Stock, Liner Stock, Ground Covers And Turfgrass

DEVIRINOL 5-G Controls Many  
Annual Grasses And Broadleaf Weeds

ACTIVE INGREDIENT:

N,N-Diethyl-2-(1-naphthalenyloxy)-propionamide . . . . . 5.0%

INERT INGREDIENTS: . . . . . 95.0%  
100.0%

Contains 5 Pounds Active Ingredient Per 100 Pounds.

ACCEPTED

AUG 26 1985

Under the Federal Insecticide  
Fungicide and Rodenticide Act,  
as amended for the pesticide  
registered under  
EPA Reg. No. 476-2202

KEEP OUT OF REACH OF CHILDREN

C A U T I O N

MAY BE HARMFUL IF SWALLOWED  
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 or call collect, day or night: (203) 226-6602 Stauffer Chemical Company or (800) 424-9300 Pesticide Safety Team Network.

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.

\_\_\_\_\_ LBS. NET WT. \_\_\_\_\_ KG.

EPA Reg. No. 476-2202

RS-850703

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

Made in U.S.A. by

STAUFFER CHEMICAL COMPANY  
WESTPORT, CT. 06881-0850

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 soap and water after use.

## ENVIRONMENTAL HAZARDS

- .Do not apply directly to water or wetlands.
- .Do not contaminate water by cleaning of equipment, or disposal of wastes. Apply this product as specified on this label.
- .Do not apply when weather conditions favor drift from areas treated.
- .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.

GENERAL DIRECTIONS FOR USE

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

1. DEVIRINOL 5-G ORNAMENTAL does not control established weeds. It must be applied to freshly weeded soil before weeds germinate or during fall and winter months.
2. DEVIRINOL 5-G 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.
3. DEVIRINOL 5-G 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.

4. DEVIRINOL 5-G 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, sand and sand.)

### WEEDS CONTROLLED BY DEVIRINOL 5-G ORNAMENTAL

#### ANNUAL GRASSES:

Barnyardgrass, Junglerice	( <u>Echinochloa spp.</u> )
Wild Barley	( <u>Hordeum leporinum</u> )
Annual Bluegrass	( <u>Poa annua</u> )
Bromes	( <u>Bromus</u> )
Cheatgrass	( <u>B. secalinus</u> )
Downy Brome	( <u>B. tectorum</u> )
Ripgut Brome	( <u>B. rigidus</u> )
Soft Chess	( <u>B. mollis</u> )
Large (Hairy) Crabgrass	( <u>Digitaria sanguinalis</u> )
Smooth Crabgrass	( <u>Digitaria ischaemum</u> )
Southwestern Cupgrass	( <u>Eriochloa gracilis</u> )
Foxtails	( <u>Setaria</u> )
Bristly Foxtail	( <u>S. verticilla</u> )
Giant Foxtail	( <u>S. faberi</u> )
Green Foxtail	( <u>S. viridis</u> )
Yellow Foxtail	( <u>S. lutescens</u> )
Goosegrass	( <u>Eleusine indica</u> )
Seedling Johnsongrass	( <u>Sorghum halepense</u> )
Wild Oats	( <u>Avena fatua</u> )
Panicums	( <u>Panicum</u> )
Guineagrass	( <u>P. paximum</u> )
Fall Panicum	( <u>P. dichotomiflorum</u> )
Texas Panicum	( <u>P. texanum</u> )
Witchgrass	( <u>P. capillare</u> )
Italian Ryegrass	( <u>Lolium multiflorum</u> )
Sandbur	( <u>Cenchrus spp.</u> )
Red Sprangletop	( <u>Leptochloa filiformis</u> )
Stinkgrass	( <u>Eragrostis cilianensis</u> )

#### ANNUAL BROADLEAF WEEDS:

Carpetweed	( <u>Mollugo verticillata</u> )
Common Chickweed	( <u>Stellaria media</u> )
Coast Fiddleneck	( <u>Amsinckia intermedia</u> )
Filaree	( <u>Erodium spp.</u> )
Groundsel	( <u>Senecio spp.</u> )
Prostrate Knotweed	( <u>Polygonum aviculare</u> )
Lambsquarters	( <u>Chenopodium album</u> )
Prickly Lettuce	( <u>Lactuca serriola</u> )
Little Mallow*	( <u>Malva parviflora</u> )
Redroot Pigweed	( <u>Amaranthus retroflexus</u> )
Pineappleweed	( <u>Matricaria matricarioides</u> )
Common Purslane	( <u>Portulaca oleracea</u> )
Horse Purslane	( <u>Trianthema portulacastrum</u> )
Common Ragweed**	( <u>Ambrosia artemisiifolia</u> )
Annual Sowthistle	( <u>Sonchus oleraceus</u> )

\*From seed

\*\*Suppression

### RECOMMENDATIONS

#### NURSEY STOCK - FIELD GROWN

Consult list of plant species on which DEVIRINOL 5-G ORNAMENTAL can be used.

Apply DEVIRINOL 5-G ORNAMENTAL as a broadcast treatment over young nursery stock or as a directed application to larger stock either as a band or broadcast treatment.

Application can be made anytime of the year to weed free soil; however, since DEVIRINOL 5-G ORNAMENTAL requires 1-2 inches of rainfall or irrigation soon after application for adequate weed control, application 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 5-G ORNAMENTAL into the soil to a depth of 1-2 inches will provide excellent weed control with less rainfall required.

One application of DEVIRINOL 5-G ORNAMENTAL should provide adequate weed control for a growing season in temperate areas.

#### CONTAINER GROWN ORNAMENTALS

Consult list of plant species on which DEVIRINOL 5-G ORNAMENTAL can be used.

Apply DEVIRINOL 5-G ORNAMENTAL as a broadcast application 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 ORNAMENTALS 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 5-G ORNAMENTAL as a broadcast treatment over the ground covers. Irrigate immediately with a minimum of one inch of water or apply when rainfall is expected.

DICHONDRA

Apply DEVIRINOL 5-G ORNAMENTAL at the time of seeding, or to established dichondra including dichondra sod. Irrigate with a minimum of 1 inch of water.

APPLICATION RATESAnnual Weeds

For annual grasses and broadleaf weeds apply 80 to 120 lbs. of DEVIRINOL 5-G ORNAMENTAL per broadcast acre (1.8 to 2.8 lbs. per 1,000 sq. ft).

Use the higher rate when weed populations are heavy or when broadleaves are the primary weeds.

USE DEVIRINOL 5-G ORNAMENTAL ON THESE ORNAMENTALS AND  
NURSERY STOCK AND CONTAINER STOCK

FIELD GROWNDeciduous and Evergreen Trees

Acer	Eucalyptus	Picea
Ash	Ficus	Pin Oak
Black Walnut	Fir	Pinus
Birch	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	Gardenia	Osmanthus
Asparagus (Sprengeri)	Heather (Calluna)	Photinia
Aucuba	Hibiscus	Pittosporum
Azalea	Honeysuckle (Lonicera)	Podocarpus
Bottlebrush	Hypericum	Pyracantha
Bougainvillea	Ilex	Raphiolepis
Buxus	Juniperus	Rhododendron
Camellia	Leucothe	Rosa
Cotoneaster	Ligustrum	Star Jasmine
Crepe Myrtle	Nandina	Taxus
Dogwood	Natal Plum	Viburnum
Euonymus	Oleander	Xylosema
Forsythia		

Fruit & Nuts

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

Strawberry (Application 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
Gazania		

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	Raphiolepis
Camellia	Hibiscus	Rhododendron
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)
Chrysanthemum	Gladiolus	Zinnia

RECOMMENDATIONS: TURF GRASS (FOR USE ON WARM SEASON GRASSES ONLY)

DEVIRINOL 5-G 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 5-G at the recommended rate. Application should be made 2-3 weeks prior to weed emergence. DEVIRINOL 5-G 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.

DEVIRINOL 5-G 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 the application of DEVIRINOL 5-G should be moved back several weeks to allow for some rainfall between application and weed germination.

RATES OF APPLICATION:

FOR CRABGRASS CONTROL: Apply 40 to 60 lbs. of DEVIRINOL 5-G uniformly per (0.9-1.35\* 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).

FOR GOOSEGRASS CONTROL: Apply 40 to 60 lbs. of DEVIRINOL 5-G per acre (0.9-1.35 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 40 lbs. of DEVIRINOL 5-G spread uniformly per acre (0.9 lbs. per 1,000 sq. ft.) for crabgrass and another 40 lbs. of DEVIRINOL 5-G 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.

FOR ANNUAL BLUEGRASS (POA ANNUA) CONTROL: Annual bluegrass is a winter annual in most of the warm season turf regions; therefore, application of DEVIRINOL 5-G should be made in the fall before the annual bluegrass germinates. Apply 40-60 lbs of DEVIRINOL 5-G per acre (0.9-1.35 lbs. per 1,000 sq. ft.).

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

RESEEDING. Do not reseed or overseed within six months after application.

BETASAN 7-G / DEVIRINOL 5-G SEQUENTIAL APPLICATIONS

BETASAN-DEVIRINOL sequential applications are recommended for crabgrass control in the following turf grasses: bahia, bermudagrass, centipede, St. Augustine and fescue. Apply 72 lbs. of BETASAN 7-G per acre (1.6 lbs./1,000 sq. ft.) followed by 40 lbs. of DEVIRINOL 5-G per acre (0.9 lbs./1,000 sq. ft.). Applications should be made 2-3 weeks before the normal germination date for crabgrass in your area.

The BETASAN 7-G/DEVIRINOL 5-G combination requires a minimum of one half (1/2) inch of rainfall or irrigation 2-3 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.

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 authorities, by burning. If burned, stay out of smoke.

NOTICE - READ CAREFULLY

CONDITIONS OF SALE:

Stauffer (and seller) offer(s) this product for sale subject to, and buyer and all users are deemed to have accepted, the following conditions of sale and warranty which may only be varied by written agreement of a duly authorized representative of Stauffer.



WARRANTY LIMITATIONS:

Stauffer warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the directions for use on the label subject to the inherent risks referred to below. Stauffer makes no other express warranties; THERE IS NO IMPLIED WARRANTY OF MERCHANTABILITY and there are no warranties which extend beyond the description on the label thereof.

INHERENT RISKS:

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 associated with use. Buyer assumes all risks associated with use of application of this product contrary to label instructions or resulting from extraordinary weather conditions.

LIMITATION OF LIABILITY:

In no case shall Stauffer be liable for special, indirect or consequential damages resulting from the use or handling of this product and no claim of any kind shall be greater in amount than the purchase price of the product in respect of which such damages are claimed.