



010182-00232-042199

Printed: 15:48:29 Monday, 24 May, 1999 # 5 / 3009

Systems Integration Group, Inc.

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10182-232

4/21/99

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DEVIRINOL 10-G ORNAMENTAL

DEV232C.RSC - 1/21/99

ACCEPTED

APR 21 1999

Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under
EPA Reg. No. 10182-232

DEVIRINOL* 10-G ORNAMENTAL

Selective Herbicide

A Preemergence Herbicide for weed control in
container-grown ornamentals, field-grown nursery stock,
liner stock, and ground covers

DEVIRINOL 10-G ORNAMENTAL controls many annual grasses and broadleaf weeds

ACTIVE INGREDIENT:

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

INERT INGREDIENTS: 90.0%

TOTAL 100.0%

Contains 10 lbs. of active ingredient per 100 pounds

EPA Reg. No. 10182-232

EPA Est. No.

Net Contents:

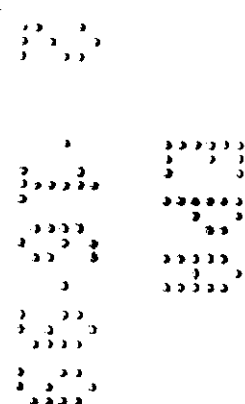
KEEP OUT OF REACH OF CHILDREN

CAUTION

MAY BE HARMFUL IF SWALLOWED

**SEE SIDE PANEL FOR STATEMENT OF PRACTICAL TREATMENT
AND PRECAUTIONARY STATEMENTS**

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



STATEMENT OF PRACTICAL TREATMENT

IN CASE OF CONTACT: Immediately flush eyes or skin with plenty of water for at least fifteen minutes. Call a physician.

IF SWALLOWED: Immediately dilute the swallowed material by giving large quantities of water and induce vomiting by gagging the victim with a finger or blunt object placed on the back of the victim's tongue. Continue fluid administration until vomitus is clear. Never give anything by mouth to an unconscious person.

IF INHALED: Remove to fresh air. Seek medical attention if respiratory irritation occurs.

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. Do not breathe dust. Avoid contact with skin, eyes and clothing. Avoid contamination of 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.

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

Keep out of lakes, streams, and ponds. 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 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

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.

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.

DEVRINOL 10-G ORNAMENTAL does not control established weeds. It must be applied to freshly weeded soil before weeds germinate or during Fall and Winter months.

DEVRINOL 10-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.

DEVRINOL 10-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.

DEVRINOL 10-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, sawdust and sand.)

| WEEDS CONTROLLED BY DEVRINOL 10-G ORNAMENTAL | |
|--|------------------------------|
| ANNUAL GRASSES: | |
| Barnyardgrass, Junglerice | <i>Echinochloa</i> spp. |
| 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> |
| Large (Hairy) Crabgrass | <i>Digitaria sanguinalis</i> |
| Smooth Crabgrass | <i>Digitaria ischaemum</i> |
| Southwestern Cupgrass | <i>Eriochloa gracilis</i> |
| Foxtails | <i>Setaria</i> |

| WEEDS CONTROLLED BY DEVIRINOL 10-G ORNAMENTAL | |
|---|----------------------------------|
| 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</i> spp. |
| 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> |
| Filaree | <i>Erodium</i> |
| Groundsel | <i>Senecio</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> |

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| WEEDS CONTROLLED BY DEVRINOL 10-G ORNAMENTAL | |
|--|-----------------------------------|
| Horse Purslane ✓ | <i>Trianthema portullacastrum</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 DEVRINOL 10-G ORNAMENTAL can be used.

Apply DEVRINOL 10-G 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 DEVRINOL 10-G 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 DEVRINOL 10-G ORNAMENTAL into the soil to a depth of 1 to 2 inches will provide excellent weed control with less rainfall required.

One application of DEVRINOL 10-G ORNAMENTAL should provide adequate weed control for a growing season in temperate areas.

CONTAINER GROWN ORNAMENTALS: Consult list of plant species on which DEVRINOL 10-G ORNAMENTAL can be used.

Apply DEVRINOL 10-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 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 DEVRINOL 10-G 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 DEVRINOL 10-G ORNAMENTAL at the time of seeding, or to established dichondra including dichondra sod. Irrigate with a minimum of 1 inch of water.

APPLICATION RATES

ANNUAL WEEDS: For annual grasses and broadleaf weeds apply 40 to 60 lbs. of DEVIRINOL 10-G ORNAMENTAL per broadcast acre (15 oz. to 1 lb 6 oz. per 1,000 sq. ft.).

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

USE DEVIRINOL 10-G ORNAMENTAL 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 | Oleander |
| Asparagus (Sprengeri) | Gardenia | Osmanthus |
| Aucuba | Heather (Calluna) | Photinia |
| Azalea | Hibiscus | Pittosporum |
| Bottlebrush | Honeysuckle (Lonicera) | Podocarpus |
| Bougainvillea | Hypericum | Pyracantha |
| Buxus | Ilex | Raphiolepis |
| Camellia | Juniperus | Rhododendron |
| Cotoneaster | Leucothe | Rosa |
| Crepe Myrtle | Ligustrum | Star Jasmine |
| Dogwood | Nandia | Taxus |
| Euonymus | Natal Plum | Viburnum |
| | | Xylosema |

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
Carpobrotus
Delosperma
Dichondra
Erysimum
Ganzania

Hedera
Hypericum
Iceplant
Ivy
Lantana

Liriope
Osteosperma
Pachysandra
Sedum
Vinca

CONTAINER STOCK

Abelia
Agapanthus
Ageratum
Asparagus
Azalea
Bottlebrush
Bougainvillea
Buxus
Camellia
Cedar
Cotoneaster
Crepe Myrtle
Cypress
Dogwood
Douglas Fir

Eucalyptus
Euonymus
Fir
Forsythia
Gardenia
Geranium
Heather
Hedera
Hibiscus
Ilex
Juniperus
Leucothea
Ligustrum
Liriope
Nandina

Pachysandra
Palm (Washingtonia
robusta)
Photinia
Pinus spp.
Pittosporum
Podocarpus
Pyracantha
Raphiolepis
Rhododendron
Rosa
Sedum
Star Jasmine
Thuja
Vinca
Xylosema

PERENNIAL FLOWERS

African Daisy
Aster
Bird of Paradise
Chrysanthemum

Dahlia
Daisy
Geranium
Gladiolus

Narcissus
Petunia
Plantain Lily (Hosta)
Zinnia

Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited.

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: Wash application equipment after use. Pesticide or rinsate that cannot be used according to label instructions must be disposed of according to Federal, State or local procedures under the Resource Conservation and Recovery Act.

CONTAINER DISPOSAL: Dispose of bags according to approved Federal, State or local procedures under the Resource Conservation and Recovery Act.

DEVIRINOL* is a trademark of a ZENECA Group Company.