

GROUP	<b>15</b>	HERBICIDE
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**DEVIRINOL® 10-G**  
Selective Herbicide  
GRANULAR

**COMMERCIAL**

For use on Container-grown Ornamentals, Field-grown Nursery Stock, Liner Stock, Forestry Stock, Ground Covers, Fruit Trees, Shrubs, Vines and for Control of Grass Weeds in Cranberries.

**GUARANTEE:**

Napropamide . . . . . 10%

**READ THE LABEL AND PAMPHLET BEFORE USING**  
**KEEP OUT OF REACH OF CHILDREN**

REGISTRATION NO. **25230**  
PEST CONTROL PRODUCTS ACT

NET CONTENTS: **22.7 Kg**

United Phosphorus, Inc.  
630 Freedom Business Center, Suite 402  
King of Prussia, PA 19406  
1-800-438-6071

[www.upi-usa.com](http://www.upi-usa.com)

EPA Est. 5905-IA-01

## **NOTICE TO USER**

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the Pest Control Products Act to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.

## **FIRST AID**

**IN CASE OF POISONING**, contact a physician or a poison control centre **IMMEDIATELY**. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

**IF SWALLOWED**: Call a poison control centre or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give **any** liquid to the person. Do not give anything by mouth to an unconscious person.

**If in eyes**: hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

**If on skin or clothing**: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice.

**If inhaled**: move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for treatment advice.

## **TOXICOLOGICAL INFORMATION**

This product contains petroleum distillates. Vomiting may cause aspiration pneumonia. Treat symptomatically.

## **PRECAUTIONS**

### **KEEP OUT OF REACH OF CHILDREN.**

#### **May Be Harmful If Swallowed.**

Avoid contact with skin, eyes and clothing. Wash thoroughly after use. Avoid contamination of food, seed, fertilizer and feed.

Wear long pants, a long-sleeved shirt and chemical-resistant gloves during mixing/loading, clean-up and repair activities.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

## **ENVIRONMENTAL HAZARDS**

Keep out of lakes, streams and ponds. Do not contaminate any body of water, including irrigation water or water used for domestic purposes. Do not contaminate water by cleaning of equipment or disposal of wastes.

This product contains a petroleum distillate which is moderately to highly toxic to aquatic organisms. Avoid contamination of aquatic systems during application. Do not contaminate these systems through direct application, disposal of waste or cleaning equipment.

### **STORAGE**

Do not store near food, feed, seed or fertilizer. Keep container tightly closed when not in use. Store in a cool, dry place.

### **DECONTAMINATION AND DISPOSAL:**

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean up of spills.

### **CONTAINER DISPOSAL:**

1. Empty bag thoroughly into spreader.
2. Make the empty bag unsuitable for further use.
3. Dispose of the bag in accordance with provincial requirements.

***IN CASE OF EMERGENCY INVOLVING A MAJOR SPILL, FIRE OR POISONING  
CALL 1-800-424-9300 (CHEMTREC).***

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Wear long pants, a long-sleeved shirt and chemical-resistant gloves during mixing/loading, clean-up and repair activities.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

This product contains heavy aromatic(petroleum) naphtha at 5.1%, which requires further toxicological testing.

### **ENVIRONMENTAL HAZARDS**

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CALL 1-800-424-9300 (CHEMTREC).***

### **DIRECTIONS FOR USE**

#### **USE PRECAUTIONS**

Read all label directions before using. Apply this product only as specified on this label. Use only for recommended purposes and at recommended rates. Do not overdose.

It is recommended that this product not be applied in a way that will contact workers or other persons, either directly or through drift. Only handlers wearing personal protective equipment may be in the area during application.

#### **DO NOT APPLY BY AIR**

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in U.S., visit CropLife Canada's website at [www.CropLife.ca](http://www.CropLife.ca).

## USE INFORMATION

DEVIRINOL 10-G Herbicide does not control established weeds. It must be applied to freshly weeded soil before weeds germinate or during fall and winter months.

DEVIRINOL 10-G Herbicide can be applied to newly planted container-grown stock after soil has settled from first watering, to field grown nursery stock, and to established plants.

DEVIRINOL 10-G Herbicide needs mechanical incorporation (such as, power tiller), adequate irrigation or natural moisture (rainfall or snow) for optimum results. The treatment must reach the zone of weed seed germination. If rainfall does not occur within 7 days for a spring or fall application or 2 days for a summer application (June, July and August), a shallow incorporation to a depth of 2.5 to 5 cm or an irrigation (sprinkler or flood) with sufficient water to wet the soil to a depth of 5 to 10 cm is necessary.

## WEEDS CONTROLLED

### Annual Grasses:

Annual bluegrass	(Poa annua)
Barnyard grass	(Echinochloa crusgalli)
Foxtail	(Setaria spp)
Large crabgrass	(Digitaria sanguinalis)
Sandbur	(Cenchrus spp)
Wild oats	(Avena fatua)

### Annual Broadleaf Weeds:

Chickweed	(Stellaria media)
Prostrate knotweed	(Polygonum aviculare)
Small-flowered Mallow*	(Malva parviflora)
Purslane	(Portulaca oleracea)
Annual sow- thistle	(Sonchus oleraceus)
Stork's-bill	(Erodium cicutarium)
Groundsel	(Senecio spp)
Lamb's-quarters	(Chenopodium album)
Pineapple weed	(Matricaria matricarioides)
Prickly lettuce	(Lactuca scariola)
Redroot pigweed	(Amaranthus retroflexus)

\*From Seed

## AREAS OF USE

### Nursery Stock - Field-Grown (Ornamental and Forestry)

Consult List of Ornamentals and Nursery Stock on which DEVIRINOL 10-G can be used. Apply DEVIRINOL 10-G Herbicide as a broadcast treatment over young nursery stock or to a larger stock either as a band or broadcast application.

Application can be made anytime of the year to weed free soil. However, since DEVIRINOL 10-G requires rainfall or irrigation with sufficient water to wet the soil to a depth of 5 to 10 cm 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.

Thorough incorporation of DEVRINOL 10-G Herbicide into the soil to a depth of 2.5 - 5 cm will provide excellent weed control with less rainfall required. One application of DEVRINOL 10-G Herbicide 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 Herbicide can be used.

Apply DEVRINOL 10-G Herbicide 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.

DEVRINOL 10-G Herbicide 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).

### **Ground Covers**

Apply DEVRINOL 10-G Herbicide as a broadcast treatment over the ground covers. Irrigate immediately with sufficient water to wet the soil to a depth of 5 to 10 cm or apply when rainfall is expected.

### **Highways, Industrial and Foundation Ornamental Plantings**

Use 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 low summer rainfall areas.

### **List of Ornamentals and Nursery Stock**

#### **Deciduous and Evergreen Trees:**

Maple (*Acer*)  
Hawthorn (*Crataegus*)  
Locust (*Gleditsia*)  
Bean Tree (*Laburnum*)  
Crabapple (*Malus*)  
Spruce (*Picea*)  
Pine (*Pinus*)  
Tobira (*Pittosporum*)  
Podocarpous (*Podocarpus*)  
White or Silver Poplar (*Populus*)  
Chokecherry (*Prunus*)  
Pear Tree (*Pyrus*)

#### **Deciduous and Evergreen Shrubs:**

Asparagus (*Sprengeri*)  
Boxwood (*Buxus*)  
Spindle Tree (*Eunonymus*)  
Hibiscus (*Hibiscus*)  
St. John's-Wort (*Hypericum*)  
Holly (*Ilex*)  
Juniper (*Juniperus*)  
Privet (*Ligustrum*)  
Tobira (*Pittosporum*)



Podocarpous (*Podocarpus*)  
Firethorn (*Pyracantha*)  
Rhododendron (*Rhododendron*)  
Shrub Rose (*Rosa*)  
Yew (*Taxus*)

**Ground Covers:**

Gazania (*Gazania*)

**Container Grown:**

Agapanthus (*Agapanthus*)  
Asparagus (*Sprengeri*)  
Box Tree (*Buxus*)  
Euonymus (*Euonymus*)  
Ivy (*Hedera*)  
Holly (*Ilex*)  
Juniper (*Juniperus*)  
Pivet sp. (*Ligustrum*)  
Pine sp. (*Pinus* sp.)  
Podocarpous (*Podocarpus*)  
Firethorn (*Pyracantha*)  
Rhododendron (*Rhododendron*)  
Shrub Rose (*Rosa*)  
Thuja (*Thuja*)

**APPLICATION RATES**

For control of the listed annual grasses and broadleaf weeds in the above ornamentals, nursery stock, container-grown stock, and ground covers, apply 45 kg of DEVRINOL 10-G Herbicide per broadcast hectare.

**Cranberries:** For the control of grass weeds (including rice cut-grass) apply 45-67 kg/ha. Apply only one application per year as a broadcast application. Application should be made in late winter (BC only) or spring - fall application is prohibited. If rainfall does not occur after treatment, irrigate with sufficient water to wet the soil to a maximum depth of 10cm.

**Fruit Trees, Shrubs and Vines**

**Newly planted apple trees** – For control of listed weeds, apply 45 kg/ha as a broadcast application, after transplanting of apple trees and preemergent to weeds. For best results, lightly incorporate or irrigate if rainfall does not occur within two days after application. Refer to Use Information section for additional instruction on obtaining optimum performance.

**Established apples, grapes, peaches, pears** – For control of listed weeds, apply 45 kg/ha as a broadcast application. Refer to Use Information section for additional instruction on obtaining optimum performance.

**Newly planted or established caneberries** – blackberries, raspberries, boysenberries, loganberries - For control of listed weeds, apply 45 kg/ha as a broadcast application. Apply in the fall through early spring prior to weed emergence. Refer to Use Information section for additional instruction on obtaining optimum performance.

**Highbush blueberries** - For control of listed weeds, apply one (1) application per season of 45 kg/ha in a band. Apply in the fall through early spring prior to weed emergence. Do not apply to frozen ground. Do not apply within 70 days of harvest. Refer to Use Information section for additional instruction on obtaining optimum performance.

**Cultivated lowbush blueberries** - For control of listed weeds, apply one (1) application per season of 45 kg/ha in late fall / early spring when blueberries are dormant. Do not apply to frozen ground. Do not apply within 70 days of harvest. Refer to Use Information section for additional instruction on obtaining optimum performance.

**NOTE TO USER: READ THE FOLLOWING BEFORE USING THIS PRODUCT FOR THE INDICATED SPECIAL USE APPLICATIONS:**

The DIRECTIONS FOR USE for this product for the use(s) described on this Supplemental label were developed by persons other than United Phosphorus Inc. and accepted for registration by Health Canada under the User Requested Minor Use Label Expansion program. United Phosphorus itself makes no representation or warranty with respect to performance (efficacy) or crop tolerance (phytotoxicity) claims for this product when used on the crop(s) listed on this Supplemental Label.

Accordingly, the Buyer and User assume all risks related to performance and crop tolerance arising, and agree to hold United Phosphorus Inc. harmless from any claims based on efficacy or phytotoxicity in connection with the use(s) described on this supplemental label.

**FIELD GROWN NURSERY AND CONTAINER STOCK.  
DIRECTIONS FOR USE:**

Only apply to transplanted or established stock, DO NOT apply to species right after direct seeding. For control of annual grasses and broadleaf weeds listed on full label (WEEDS CONTROLLED BY 45 kg/ha) in the field grown nursery stock, container grown ornamentals and ground covers listed below, use the current label rate:

Apply 45 kg of DEVRINOL 10-G per broadcast hectare.

Deciduous and Evergreen Trees: ash, birch, black walnut, cedar, cypress, dogwood, Douglas fir, eucalyptus, fir, hemlock, Japanese larch and pin oak.

Deciduous and Evergreen Shrubs: abelia, aucuba, azalea, bottlebrush, camellia, cotoneaster, crape myrtle, dogwood, forsythia, honeysuckle (Lonicera), leucothoe, nandina, osmanthus, photinia, raphiolepis, star jasmine, viburnum.

Fruit and Nuts: filbert, grape and walnut.

Ground covers: Ajuga, Ivy, St. John's-Wort, lantana, liriopse, pachysandra, sedum and vinca

Flowers: aster, dahlia, daisy, geranium, narcissus, osteospermum (African daisy), petunia, plantain lily (hosta).

Container grown ornamentals: abelia, ageratum, azalea, bottlebrush, bougainvillea, camellia,

cedar, cotoneaster, crape myrtle, cypress, dogwood, Douglas fir, eucalyptus, fir, forsythia, gardenia, geranium, heather, hibiscus, leucothoe, liriopse, nandina, pachysandra, photinia, raphiolepis, sedum, star jasmine, vinca.

### **Resistance-Management Recommendations**

For resistance management, DEVRINOL 10-G Herbicide is a Group 15 herbicide. Any weed population may contain or develop plants naturally resistant to DEVRINOL 10-G Herbicide and other Group 15 herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same field.

Other resistance mechanisms that are not linked to site of action, but specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

#### **To delay herbicide resistance:**

Where possible, rotate the use of DEVRINOL 10-G Herbicide or other Group 15 herbicides with different herbicide groups that control the same weeds in a field.

Use tank mixtures with herbicides from a different group when such use is permitted.

Herbicide use should be based on an IPM program that includes scouting, historical information related to herbicide use and crop rotation, and considers tillage (or other mechanical), cultural, biological and other chemical control practices.

Monitor treated weed populations for resistance development. Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment and planting clean seed.

Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or integrated weed-management recommendations for specific crops and weed biotypes.

For further information or to report suspected resistance, contact a company representative at 1-800-438-6071 or at [www.upi-usa.com](http://www.upi-usa.com).

DEVRINOL is a registered trademark of United Phosphorus, Inc.

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