

GROUP

5

HERBICIDE

PRONONE® 10G

GRANULAR HERBICIDE

FOR SALE FOR USE ON LOWBUSH BLUEBERRIES ONLY

COMMERCIAL

READ THE LABEL AND ATTACHED BOOKLET BEFORE USING

GUARANTEE: Hexazinone 10%

REGISTRATION NO. 21390 PEST CONTROL PRODUCTS ACT

WARNING - EYE IRRITANT

NET CONTENTS: 20 KG

E. I. DU PONT CANADA COMPANY
AGRICULTURAL PRODUCTS
P.O BOX 2300, STREETSVILLE
MISSISSAUGA, ONTARIO,
L5M 2J4
1-800-667-3925

PRECAUTIONS:

- **KEEP OUT OF REACH OF CHILDREN**
- EYE IRRITANT - DO NOT get in eyes.
- Harmful if swallowed
- Avoid contact with skin and clothing.
- Wear a long-sleeved shirt, long pants and shoes plus socks during application. In addition, wear chemical-resistant gloves and goggles or a face shield during mixing/loading, clean-up or repair activities and when using handheld application equipment..
- Do not enter or allow entry into treated area until 48 hours after application.

FIRST AID:**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 SWALLOWED:

Call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

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 further treatment advice.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

For medical emergencies and transportation emergencies such as spills, leaks or fires call 1-800-441-3637 (24 hours).

TOXICOLOGICAL INFORMATION: Treat symptomatically.

STORAGE:

Store products in original container only, away from fertilizers, seed, food or feed.

DISPOSAL:

1. Triple- or pressure-rinse the empty container. Add the rinsing to the spray mixture in the tank.
2. Follow provincial instructions for any required additional cleaning of the container prior to its disposal.

3. Make the empty container unsuitable for further use.
4. Dispose of the container in accordance with provincial requirements.
5. 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.

ENVIRONMENTAL HAZARDS

TOXIC to aquatic organisms and non-target terrestrial plants. Observe buffer zones specified under DIRECTIONS FOR USE.

The use of this chemical may result in contamination of groundwater particularly in areas where soils are permeable (e.g. sandy soil) and/or depth to the water table is shallow.

To reduce runoff from treated areas into aquatic habitats avoid application to areas with a moderate to steep slope, compacted soil, or clay.

Avoid application when heavy rain is forecast.

Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip between the treated area and the edge of the water body.

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

<<DFU Booklet>>

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For medical emergencies and transportation emergencies such as spills, leaks or fires call 1-800-441-3637 (24 hours).

TOXICOLOGICAL INFORMATION: Treat symptomatically.

IMPORTANT

Injury to or loss of desirable trees or other plants may result from failure to observe the following: DO NOT APPLY or empty or flush equipment on or near desirable trees or other plants, or on areas where their roots may extend or in locations where the chemical may be washed or get into contact with their roots. DO NOT use on lawns, walks, driveways, tennis courts, or similar areas. Keep from contact with fertilizers, insecticides, fungicides and seeds. DO NOT contaminate any body of water.

GENERAL INFORMATION

PRONONE[®] 10G Granular Herbicide is a special granular product to be distributed in a uniform pattern on the soil surface for selective control of certain weeds and brush in blueberry fields and

blueberry field preparation. Precipitation dissolves the active Hexazinone from the granule and moves the herbicide into the root zone where it is absorbed during periods of active plant growth.

Best results are obtained when PRONONE® 10G is present in the root zone during active growth of target vegetation. Moisture is required to activate PRONONE® 10G in the soil.

In herbaceous broadleaf weeds and grasses, symptoms usually appear within 2 weeks after application under warm, humid conditions, while 4 to 6 weeks may be required when weather is cool. If rainfall after application is inadequate to activate PRONONE® 10G in the soil, plants may continue to grow until sufficient rainfall moves PRONONE® 10G into the root zone.

In actively growing woody plants, symptoms usually appear within three weeks after sufficient rainfall has carried the herbicide into the root zone, during periods of active growth. Recurrent defoliation and refoliation may occur, until susceptible plants are killed. In some brush species, complete control may not be accomplished until the following year. The degree of control and duration of effect will vary with the amount of chemical applied, rainfall, temperature, weed and brush species, soil moisture, soil type, depth of organic layer and season of application.

DIRECTIONS FOR USE

Apply the granules by appropriate ground or aerial equipment. Consult with DuPont Canada for equipment that will distribute the granules uniformly. Granular fertilizer applicators are not specifically designed to apply rates outlined on this label. When using equipment, avoid overlapping and shut-off while starting, turning, slowing or stopping in order to avoid injury to desirable trees.

CLEAN THE APPLICATION EQUIPMENT THOROUGHLY AFTER USE.

Before application, calibrate the equipment to distribute the granules uniformly over the area to be treated. Apply when rainfall can be expected to activate the chemical in the soil. DO NOT use PRONONE® 10G on gravelly, rocky soils or sandy or coarse textured. DO NOT apply to hillsides where the slope is moderate to steep. DO NOT apply to sites whose physical state will prevent penetration of PRONONE® 10G into the root zone of the target species. This includes frozen soils, sites that are water saturated, or sites in which the water table is close to the surface.

DO NOT apply by ground within 50 metres of water bodies.

Observe provincial guidelines or regulations that regulate treatments on slopes, establishment of buffer zones around water bodies and guidelines that prescribe the manner in which treatments may be applied. In the absence of such guidelines or regulations, read and observe the section "TREATMENT ON SLOPES".

TREATMENT ON SLOPES:

To reduce down-slope movement of the herbicide or treated soil particles into sensitive areas (for example aquatic systems or wetlands) consider the characteristics/conditions of the site before treatment. Site characteristics/conditions that may lead to such occurrences following heavy rainfall include compacted soils, fine textured soils, absence of organic layer, absence of harvest residue or forest floor litter and angle of slope. Potential for contamination of sensitive areas as a result of run off will be reduced by inclusion of buffer zones at or near the bottom of slope.

DO NOT use on sloped sites where there is the potential for run-off to sensitive areas. To allow sufficient soil penetration, do not apply late in the season close to freeze up. For further definition of soil type, refer to the "SOIL DEFINITION" section. If help is required to identify soil conditions of environmental concern, contact the DuPont Canada representative.

SOIL DEFINITIONS:

Gravelly soils are soils having more than 70% by volume of coarse fragments (gravel, cobbles, or stones) with too little fine fraction to fill space larger than 1 mm.

Rocky soils are soils where 25-90% is occupied by rock outcrops and most of the remainder by shallow soils.

Light or coarse soils consist of sand, loamy sand, and sandy loam.

Medium soil consists of loam, silt loam, silt, sandy clay and sandy clay loam.

Heavy or fine soils consist of silty clay, silty clay loam, clay loam, and clay.

LOW BUSH BLUEBERRY SITE PREPARATION - BROADCAST GROUND APPLICATION:

Apply PRONONE® 10G so that it is spread uniformly on the soil surface.

Apply 20 to 40 kg of PRONONE® 10G per hectare. Use the higher rate on fine textured soils high in organic matter and for hard-to-kill species. For intermediate textured soils, use the lower rate. On all soils, the higher rate will provide longer residual control. DO NOT use on gravelly soils, rocky soils or soils which are sandy or coarse textured.

PRONONE® 10G controls:**Grasses:**

Brome (grass)	(<i>Bromus</i> spp.)
Blue joint grass	(<i>Calamagrostis</i> spp.)

Herbaceous Weeds:

Asters	Compositae family
Goldenrod	(<i>Solidago</i> spp.)

Woody Deciduous Plants:

Raspberry	(<i>Rubus</i> spp.)
Trembling aspen	(<i>Populus</i> spp.)
Balsam poplar	(<i>Populus</i> spp.)
*Cherry	(<i>Prunus</i> spp.)
*White birch	(<i>Betula papyrifera</i>)

*Controls seedlings up to 120 cm

LOWBUSH BLUEBERRIES

Apply PRONONE® 10G at 14 to 20 kg per hectare in the spring after pruning (burning or mowing) operations but before blueberries emerge. Apply the granules by appropriate ground or aerial equipment. The granules should be released as close to the ground as possible. DO NOT apply by ground within 50 metres or by air within 100 metres of water bodies. PRONONE® 10G controls most common grasses and many perennial broadleaved weeds, and such woody weeds as trailing blackberry, lamb-kill and hardhack. Canada blueberry (*Vaccinium myrtilloides*) and some clones of the lowbush blueberry (*Vaccinium angustifolium*) are sensitive. Temporary defoliation of the lower leaves of the lowbush blueberry will occur, but plants recover.

Apply 14 kg PRONONE® 10G per hectare to light soils and 20 kg PRONONE® 10G per hectare to heavier soils. DO NOT apply PRONONE® 10G to extremely sandy or gravelly soils, or where the terrain does not permit even and accurate application. Avoid treating fields that may be subject to

erosion following improved weed control, or areas of fields that are wet or poorly drained. Overlapping applications of those made after blueberries emerge may cause severe crop injury.

WEEDS CONTROLLED:

Colonial bent grass	(<i>Agrostis capillaris</i>)
Poverty oat grass	(<i>Danthonia spicata</i>)
Blue grass	(<i>Poa pratensis</i>)
Sheep fescue	(<i>Festuca ovina</i>)
Timothy	(<i>Phleum pratense</i>)
Boreal Panic-grass	(<i>Panicum boreale</i>)
Yellow Rattle	(<i>Rhinanthus crista-galli</i>)
Goldenrod	(<i>Solidago</i> spp.)
Aster	(<i>Aster</i> spp.)
Yarrow	(<i>Achillea millefolium</i>)
Cinquefoil	(<i>Potentilla</i> spp.)
Wild Strawberry	(<i>Fragaria</i>)
Hawkweed	(<i>Hieracium</i> spp.)
Fireweed	(<i>Epilobium angustifolium</i>)
Pearly everlasting	(<i>Anaphalis margaritacea</i>)
Ox-eye daisy	(<i>Chrysanthemum leucanthemum</i>)
Black Medick	(<i>Medicago lupulina</i>)
Trailing blackberry	(<i>Rubus hispidus</i>)
Hardhack	(<i>Spiraea tomentosa</i>)
Lamb-kill	(<i>Kalmia angustifolia</i>)
Wild red raspberry	(<i>Rubus idaeus</i>)
Poplar	(<i>Populus</i> spp.)

Instructions for Aerial Applications

Apply only by fixed-wing or rotary aircraft equipment, which has been functionally and operationally calibrated for the atmospheric conditions of the area and the application rates and conditions of this label.

Label rates, conditions and precautions are product specific. Read and understand the entire label before opening this product. Apply only at the rate recommended for aerial application on this label. Where no rate for aerial application appears for the specific use, this product cannot be applied by any type of aerial equipment. Ensure uniform application. To avoid streaked, uneven or overlapped application, use appropriate marking devices.

Use Precautions

Apply only when meteorological conditions at the treatment site allow for complete and even crop coverage. Apply only under conditions of good practice specific to aerial application as outlined in the National Aerial Pesticide Application Manual, developed by the federal/provincial/territorial committee on pest management and pesticides. Do not apply to any body of water. Specified buffer zones should be observed.

Operator Precautions

Do not allow the pilot to mix chemicals to be loaded onto the aircraft. Loading of premixed chemicals with a closed system is permitted.

It is desirable that the pilot have communication capabilities at each treatment site at the time of application.

The field crew and the mixer/loaders must wear chemical resistant gloves, coveralls and goggles or face shield during mixing/loading, cleanup and repair. Follow the more stringent label precautions in cases where the operator precautions exceed the generic label recommendations on the existing ground boom label.

All personnel on the job site must wash hands and face thoroughly before eating and drinking. Protective clothing, aircraft cockpit and vehicle cabs must be decontaminated regularly.

ENVIRONMENTAL HAZARDS

Toxic to aquatic organisms and non-target terrestrial plants. Observe buffer zones specified under DIRECTIONS FOR USE.

The use of this chemical may result in contamination of groundwater particularly in areas where soils are permeable (e.g. sandy soil) and/or depth to the water table is shallow.

To reduce runoff from treated areas into aquatic habitats avoid application to areas with a moderate to steep slope, compacted soil, or clay.

Avoid application when heavy rain is forecast.

Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip between the treated area and the edge of the water body.

Product Specific Precautions

Read and understand the entire label before opening this product. If you have questions, call the manufacturer at 1-800-667-3925 or obtain technical advice from the distributor or your provincial agricultural representative. Application of this specific product must meet and/or conform to the following:

DO NOT apply by air within 100 metres of water bodies.

RESISTANCE MANAGEMENT RECOMMENDATIONS:

For resistance management, PRONONE® 10G is a Group 5 herbicide. Any weed population may contain or develop plants naturally resistant to PRONONE® 10G and other Group 5 herbicides. The resistance 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 PRONONE® 10G or other Group 5 herbicides with different herbicide groups that control the same weeds in a field.
- ◆ Use tank mixtures with herbicides from 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 your local DuPont representative or the DuPont hotline at 1-800-667-3925.

STORAGE:

Store products in original container only, away from fertilizers, seed, food or feed.

DISPOSAL:

1. Triple- or pressure-rinse the empty container. Add the rinsing to the spray mixture in the tank.

2. Follow provincial instructions for any required additional cleaning of the container prior to its disposal.
3. Make the empty container unsuitable for further use.
4. Dispose of the container in accordance with provincial requirements.
5. 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.

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

In some cases, tank mixing a pest control product with another pest control product or a fertilizer can result in biological effects that could include, but are not limited to: reduced pest efficacy or increased host crop injury. The user should contact E.I du Pont Canada Company at 1-800-667-3925 for information before mixing any pesticide or fertilizer that is not specifically recommended on this label. The user assumes the risk of losses that result from the use of tank mixes that do not appear on this label or that are not specifically recommended by E.I du Pont Canada Company

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