

9-DEC-2002 Notification received of label changes. See below for these changes.

03-MAY-2004 Notification received of label changes. See below for these changes.

29-NOV-2000

((LABEL))

~~DuPont~~^{inc}

E.I. DU PONT CANADA COMPANY

VELPAR® DF

HERBICIDE

Notification Change

For Use in Woodland Management Areas, Christmas Tree Plantations,
Established Seed Alfalfa and Blueberries

Water Dispersible Granule

COMMERCIAL

READ THE LABEL AND THIS BROCHURE BEFORE USING

GUARANTEE: Hexazinone 750 g/kg

REGISTRATION NUMBER 25225 PEST CONTROL PRODUCTS ACT

NET CONTENTS: 2 KG

CAUTION POISON

CAUTION - SKIN IRRITANT

DANGER - CORROSIVE TO EYES

Notification Change

~~DUPONT CANADA INC.~~

E.I. DU PONT CANADA COMPANY

AGRICULTURAL, PRODUCTS

BOX 2300 STREETSVILLE

MISSISSAUGA, ONTARIO, L5M 2J4

1-800-667-3925

PRECAUTIONS: KEEP OUT OF REACH OF CHILDREN

Avoid contact with skin and clothing. Avoid breathing spray mist. Do not get in eyes. Wear coveralls and long-sleeved shirt and pants during application, mixing and loading, and cleanup and repair activities. Chemical resistant gloves should be worn during mixing/loading and clean-up/repair activities. When mixing and loading, wear a face shield or goggles. Keep container closed.

Notification Change

If this pest control product is to be used in a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., contact 1-866-375-4648 or www.cropro.org/.

FIRST AID

EYE CONTACT: Flush eyes immediately with plenty of water for 15 minutes. Contact a physician or poison control centre.

SKIN CONTACT: Wash skin with plenty of soap and water. Remove and wash contaminated clothing before re-use. Get medical attention if irritation persists, or contact a poison control centre.

INGESTION: Administer water freely and induce vomiting. Repeat until vomit fluid is clear. Contact a physician or poison control centre. Do not induce vomiting or give anything by mouth to an unconscious person.

For medical emergencies or spills involving this product, call 1-613-348-3616 (24 hours).

TOXICOLOGICAL INFORMATION: *Treat symptomatically.*

Notification Change

STORAGE

Store product in original container only. Do not contaminate water, other pesticides, fertilizers, food or feed in storage.

DECONTAMINATION AND DISPOSAL

1. Rinse the emptied container thoroughly and add the rinsings 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 control product is to be used only in accordance with the directions on this label. It is an offence under the Pest Control Products Act to use a control product under unsafe conditions.

NOTICE TO BUYER: Seller's guarantee shall be limited to the terms set out on the label and subject thereto, the buyer assumes the risk to persons or property arising from the use or handling of this product and accepts the product on that condition.

Purchase of this material does not confer any rights under patents of countries outside Canada.

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VELPAR® is a registered trademark of E.I. du Pont de Memours and Company.

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Made in U.S.A.
Printed in U.S.A.

((BROCHURE))

DUPONT®

E.I. DU PONT CANADA COMPANY

VELPAR® DF

Notification Change

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Product Labeling
DIRECTIONS FOR USE
A00485709

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Notification Change

RESTRICTED USES

NOTICE TO USER: This control product is to be used only in accordance with the directions of this label. It is an offense under the PEST CONTROL PRODUCTS ACT to use a control product under unsafe conditions.

NATURE OF RESTRICTION: This product is to be used only in the manner authorized; consult local pesticide regulatory authorities about use permits which may be required.

Aerial application For Woodland Management Areas of Less Than 500 ha. for site preparation prior to planting conifers. VELPAR® DF may be applied by either fixed or rotary wing aircraft. VELPAR® DF must reach the ground in order to be effective, so the dispersal system chosen should be one that produces large spray droplets, that are less likely to drift. Avoid dispersal systems or settings that produce spray droplets of less than 200 micrometers VMD. The optimum volume median diameter of the spray droplets should be greater than 400 micrometers. The spray should be released as close to the ground as possible. Do not release spray at heights greater than

15 meters above the canopy top.

With conventional boom and nozzle systems, the nozzles should point straight back to minimize the production of small droplets. Microfoil and Thru Valve booms are also well suited to VELPAR DF application.

Apply 2.88 - 5.76 kg of VELPAR® DF per hectare in a minimum of 35 litres water per hectare.

Do not apply by air within 100 meters of water bodies.

Avoid dispersal systems or settings that produce spray droplets of less than 200 micrometers VMD.

Do not apply when windspeed at the 10 meter height is greater than 15 kph.

Do not release spray at heights greater than 15 meters above the canopy top.

IMPORTANT

Injury to or loss of desirable trees or other plants may result from failure to observe the following: DO NOT drain 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 moved into contact with their roots. DO NOT USE on lawns, walks, driveways, tennis courts, or similar areas. Prevent spray drift to desirable plants. Keep from contact with fertilizers, insecticides, fungicides and seeds. DO NOT contaminate any body of water.

DO NOT use VELPAR® DF on gravelly or rocky soils, or soils which are sandy or coarse textured. DO NOT apply to sites whose physical state will prevent penetration of VELPAR® DF into the root zone of the target species. This includes frozen and snow-covered soils, sites which are water-saturated or sites in which the water table is close to the surface. 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.

Do not apply by ground within 50 meters of water bodies.

Observe provincial guidelines or regulations that regulate treatment 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".

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 spaces 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 soils consist of loam, silt loam, silt, sandy clay and sandy clay loam.

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

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.

GENERAL INFORMATION

DuPont VELPAR® DF Herbicide is a water dispersible granule to be mixed in water and applied as a broadcast spray for selective control of certain weeds and brush in woodland management areas (500 hectares or less of a wooded area or site to be planted to forest), Christmas tree plantations, in blueberries, and in alfalfa grown for seed. It is non-corrosive to equipment.

VELPAR® DF provides preemergence and postemergence control of undesirable vegetation.

Applications to plants before leaves are fully expanded are more effective than later treatments. Applications should not be made after target deciduous species have achieved full annual growth.

Foliar applications when vegetation is dormant or semi-dormant may not be effective in herbaceous plants.

VELPAR® DF is absorbed through the roots and may demonstrate contact activity on foliage. There is, however, limited long-term effect on woody species following foliar application only.

For brush control, soil applications are most effective.

Best results are obtained when VELPAR® DF is present in the root zone during active growth of the target vegetation.

Symptoms usually appear in herbaceous plants 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 VELPAR® DF in the soil, plants may recover from contact effects and continue to grow until sufficient rainfall moves VELPAR® DF into the root zone.

Symptoms usually appear within 3 weeks in actively growing woody plants after sufficient rainfall has carried the herbicide into the root zone.

Defoliation and subsequent refoliation may occur until root reserves are exhausted at which time susceptible plants die. The degree of control and duration of effect will vary with amount of chemical applied, soil texture and organic matter, rainfall, temperature, weed or brush species, soil moisture and other conditions.

Moisture is required to activate VELPAR® DF in the soil.

The effectiveness of VELPAR® DF may be reduced as the level of organic matter in the soil increases.

DIRECTIONS FOR USE

Calibrate equipment before spraying.

Do not use excessive agitation after initial mixing as foaming may result. Avoid storing mixed solutions of VELPAR® DF overnight where temperatures may fall below 7 degrees C. Do not apply more than 5.76 kg/ha per year. Do not apply to frozen or snow covered soil. Avoid overlapping and shut off spray while starting, turning, slowing or stopping in order to avoid injury to desirable trees. Do not use mist blowers.

WOODLAND MANAGEMENT (Less than 500 ha)

BROADCAST APPLICATIONS (Ground Application)

For the control of herbaceous vegetation and certain woody plants

in reforestation areas and sites to be established as Christmas tree plantations prior to planting conifers, apply VELPAR DF as a spray mixed in water to uniformly cover the soil surface. Apply as a coarse spray. Large droplets reduce the potential for drift and help ensure that VELPAR DF reaches the soil surface. Apply the specified amount of VELPAR DF in a minimum of 250 litres water per hectare.

Apply 2.88 kg to 5.76 kg of VELPAR® DF per hectare. If crystallization in the spray or mixing tanks is a problem, N-butyl alcohol may be added. Use the higher rate on fine textured soils high in organic matter and for hard to kill species. For medium 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.

Black spruce, white spruce, red pine and bare root jack pine stock may be planted immediately on medium and fine textured soils where the organic layer has not been removed, following an application of 2.88 kg/ha.

If rates greater than 2.88 kg/ha were used or if the organic layer has been removed or severely disturbed, or if lodgepole pine or container jack pine stock is to be planted, delay planting until the season following treatment.

SPECIES CONTROLLED BY
BROADCAST APPLICATION

Brome Grass	Bromus spp
Blue Joint Grass	Calamagrostis spp
Goldenrod	Solidago spp
Raspberries	Rubus spp

Ground Application: Apply the specified amount of VELPAR® DF in a minimum of 250 Litres of water per hectare.

APPLICATIONS TO ESTABLISHED CONIFERS (Conifer Release)

Christmas Tree Plantations (Balsam Fir, Red Pine, Scotch Pine, Black Spruce, White Spruce, Colorado Blue Spruce)

VELPAR® DF may be applied over established trees in both transplanted and naturally regenerating stands for control of certain herbaceous weeds and shrubs. Apply the specified amount in the spring, after the ground has thawed but before flushing (bud break) of the conifers and before weeds have more than 5 cm of new growth.

Amount To Use

Apply 672 g to 2.656 kg of VELPAR® DF per hectare, except on white spruce where the maximum rate is 2.016 kg per hectare. Choose from the rate ranges below to determine the appropriate amount for each weed. Within each rate range, the lower rate should be used on lighter soils, lower in organic matter; the higher rate on heavier soils high in organic matter.

Weeds Controlled By 672 g to 1.344 kg/ha
Redroot pigweed
Barnyard grass

Weeds Controlled By 1.344 to 2.656 kg/ha

Redroot pigweed	Perennial grasses including
Barnyard grass	timothy, brome, and
Raspberry	quackgrass
Blackberry	
Goldenrod	

SPRAY APPLICATIONS

Apply the specified dose in 100-300 litres water per hectare. Do not use excessive agitation after initial mixing as foaming may result. Avoid storing mixed solutions of VELPAR® DF overnight where temperatures may fall below 7 degrees C as crystallization may occur. If crystallization does occur, 2-4% v/v/N-butyl alcohol may be added to the mixture. Avoid overlapping and shut off spray while starting, turning, slowing, or stopping in order to avoid injury to desirable trees. Do not apply to frozen or snow covered soil. Do not use mist blowers. If trees are too tall to permit uniform broadcast spray application, direct the spray below the lower branches. Do not apply VELPAR® DF to extremely sandy or gravelly soils or to any soils with less than 1% organic matter. Do not apply where the terrain does not permit even and accurate application. Avoid treating fields that may be subject to erosion following improved weed control, or to areas of field that are wet or poorly drained. Do not apply within 50 meters of water bodies to prevent possible injury to aquatic plants. Do not apply to transplanted trees in the same season as transplanting.

BLUEBERRIES

LOWBUSH BLUEBERRIES

(Ground Application Only, Do Not Apply by Air)

Apply VELPAR® DF at 1.92 to 2.56 kg per hectare in the spring after burning operations but before blueberries emerge. Use a minimum of 200 L of water per hectare. VELPAR® DF 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 1.92 kg per hectare to light soils and 2.56 kg per hectare to heavier soils. Do not apply VELPAR® DF 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 or those made after blueberries emerge may cause severe crop injury.

NOTE TO BUYER/USER: READ THE FOLLOWING BEFORE USING THIS PRODUCT FOR SPECIAL USE APPLICATIONS.

The Directions for Use for this product for the use described below were developed by persons other than DuPont Canada Inc. and accepted for registration by Health Canada under the User Requested Minor Use Label Expansion Program. DuPont Canada Inc. itself makes no representation of warranty with respect to product performance (efficacy) and crop tolerance (phytoxicity) of this product when used on the crop listed below. Accordingly, the Buyer and User assume all liability arising, and agree to hold DuPont Canada Inc. harmless from any claims based on efficacy or phytotoxicity in connection with these uses.

LOWBUSH BLUEBERRY (Nova Scotia, Prince Edward Island, and New Brunswick)

POST EMERGENT APPLICATION:

Apply VELPAR® DF at a rate of 1.8 kg per hectare for control of: golden rod, sheep sorrel, aster and poverty grass.

Apply VELPAR® DF in the spring of the fruiting year, but no later than the early bloom stage of growth (before the flower buds separate and show white petals). Application should be made using ground equipment only. Make one post-emergent application per year. Serious crop injury and yield loss may result if application is made after the recommended timing of application. Only apply to those areas of the field where weed density will cause yield loss or harvest problems. Do not apply with any other pesticide as this may reduce crop tolerance. Do not apply VELPAR® DF to extremely sandy or gravelly soils 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.

LOWBUSH BLUEBERRIES IN FRUITING YEAR (Nova Scotia only)

POST EMERGENT APPLICATION:

Apply VELPAR® DF at 1.34 kg/ha for control of goldenrod, sheep sorrel, aster, and poverty oat-grass.

Apply in the spring of the fruiting year, but no later than the early bloom stage of growth (before the flower buds separate and show white petals). Application should be made using ground equipment only. Make one post-emergent application per year. Serious crop injury and yield loss may result if application is made after the recommended timing of application. Only apply to those areas of the field where weed density will cause yield loss or harvest problems. Do not apply with any other pesticide as this may reduce crop tolerance. This use is for Nova Scotia only.

HIGHBUSH BLUEBERRIES - BLUECROP VARIETY ONLY
(For Use in British Columbia Only)

For control of annual and perennial grasses and broadleaf weeds in highbush blueberries (Bluecrop variety only), apply 1.28 to 2.56 kg per hectare in a minimum of 200 L of water per hectare, before weeds are 30 cm tall and prebloom to blueberry. Use the lower rate on sandy soils or soils low in organic matter. Do not apply more than 2.56 kg per ha in any year. Do not apply within 60 days of harvest.

WEEDS CONTROLLED (in blueberries only)

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>)
-----	(<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)
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>Spirea tomentosa</i>)
lamb-kill	(<i>Kalmia angustifolia</i>)
wild red raspberry	(<i>Rubus idaeus</i>)
poplar	(<i>Populus</i> spp)

ESTABLISHED SEED ALFALFA

(Ground Application Only, Do Not Apply by Air)

For control of dandelion, quack grass and sow thistle, apply 672 g/ha - 1.344 kg/ha in a minimum of 200 L water per hectare. Use the lower rate on medium textured soils low in organic matter. For control of narrow leaved hawk's beard and scentless chamomile apply 1.344 kg/ha in a minimum of 200 L water per hectare. Apply only to alfalfa grown for seed that has been established for at least 18 months, in the late fall or early spring when alfalfa is dormant. If fall irrigation and/or burning is to be carried out, do not apply VELPAR® DF until after completion of these operations.

Do not graze the treated crop or cut for hay; sufficient data are not available to support such use.

Do not apply to frozen soil.

Do not apply to soils with less than 1% organic matter.

Do not apply to gravelly or rocky soils, exposed subsoils or sand.

Crop injury may occur in fields where alfalfa root growth has been restricted by hard pans or other physical barriers to root growth. Do not treat fields that are to be planted to other crops within 24 months. See REPLANTING TO OTHER CROPS section below.

REPLANTING TO OTHER CROPS

Information enabling specific recommendations for rotational crops and recropping intervals is limited. Do not seed any crop following alfalfa that has been treated with VELPAR® DF until a successful field bioassay shows that the crop in question may be grown safely. A successful field bioassay means growing to maturity a test strip of the crop across the field.

Persistence of VELPAR® DF in the soil is influenced by temperature, rainfall, soil type and organic matter.

Seeding of field bioassays is not recommended less than 24 months after the last VELPAR® DF application.

FIELD BIOASSAY

Select a representative area or areas of the field previously treated with VELPAR® DF to plant the bioassay crop(s). Be sure to

consider factors such as size of field, soil texture, drainage and turn around areas when selecting the site(s) that are most representative of the soil conditions in the field. On large fields, more than one site may be needed in order to obtain reliable results.

Use standard tillage and seeding equipment to plant the bioassay. Plant the test strips perpendicular to the direction in which the field was sprayed. The strips should be long enough to cross the width of several spray swaths. Large test strips are more reliable than small ones.

Prepare a seedbed and plant the crops and varieties you want the option of growing the following year. It is important to use the same planting time, conditions, techniques and cultural practices you normally use to plant and grow the bioassay crop(s). Also plant an adjacent area not treated with VELPAR® DF to use as a comparison. With crop emergence and growth, examine these key points in VELPAR® DF treated and non-treated areas:

- * crop stand
- * rate of growth
- * plant colour and vigour
- * yield

Allow the bioassay crop(s) to grow to maturity while making your observations.

Do not overspray the test strips with herbicides that may damage the bioassay crop(s).

If the bioassay indicates that VELPAR® DF residues are still present, repeat the bioassay again the following year. Do not rotate to other crops until bioassay results indicate that susceptible crops are growing normally.

Notification Change

RESISTANCE-MANAGAEMENT RECOMMENDATIONS: To be added here.

STORAGE

Store product in original container only. Do not contaminate water, other pesticides, fertilizers, food or feed in storage.

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