

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

Mr. Jack Cain **DuPont Crop Protection** PO Box 30 Newark, DE 19714-0030

AUG - 3 2011

Subject:

Notification Dated July 25, 2011

DuPont Velpar DF Herbicide

EPA Reg. nos. 352-581

Dear Mr. Cain:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 dated July 25, 2011 for the product 352-581. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action(s) requested fall within the scope of PRN 98-10. The label submitted with the application has (have) been stamped "Notification" and will be placed in our records.

If you have any questions, please call me directly at 703-305-1243.

Sincerely,

Product Manager 23

Herbicide Branch

Registration Division (7505P)

Office of Pesticide Programs

Please read instructions	on reverse before completin	ng form.		Form Approve	d. OMB No. 207	0-0060.	Approval expires 05-31-98
\$EPA	Environmental	ited States Protection gton, DC 2046		4 <u> </u>	Registrati Amendme		OPP Identifier Number
		Application	n for Pestic	ide - Sectio	n l		
1. Company/Product Nun DuPont / 352-581	nber			Product Manage thryn Montagu			posed Classification None Restricted
4. Company/Product (Nat DuPont /DuPont™ V			РМ# 23				None Restricted
5. Name and Address of DuPont Crop Protection 1007 Market Street Wilmington DE 19898	Applicant (Include ZIP Code Attn: J. Cain, Stine -		(b)(i), to:		similar or identic	al in con	FIFRA Section 3(c)(3) Apposition and labeling ATION
Check if	this is a new address		Prod	uct Name		AUG U	3 2011
			Section -	11			
Amendment - Exp	response to Agency letter d	lated		Final printed la Agency letter "Me Too" App Other - Explair	lication.	• ·	
1. Material This Product	Will Be Packaged In:		Section -	III a sa s			
Child-Resistant Packagin Yes* X No * Certification must	Yes X No If "Yes"	No. per	Water Soluble Yes X No	No. per	2. Type of C	Metal Plastic Glass Paper	pecify) Fiber sak/drum
be submitted	Unit Packaging wgt.	container	Package wgt	container	لـــــــا	Other (S	pacity) 1 ibot data at att
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1. Contact Point (Comp.	lete items directly below fo	or identification	n of individual to	be contacted, if	necessary, to prod	ess this	appilētign.]
Name J. H. (Jack) Cain	96.5. 1.486.	4 5 8.	Title US Sr. Regi	stration Manag			No. (Include Area Code)
	tatements I have made on t any knowingly false or m ble law.		all attachments		or imprisonment o		6. Date Application 3
2. Signature		1	3. Title US Sr. Regist	ration Manage	F	air regi	
4. Typed Name			5. Date			un segin, a	33333
J. H. (Jack) Cain		1	July 25, 2011				



DuPont Crop Protection Stine-Haskell Research Center P.O. Box 30 Newark, DE 19714-0030

ACTION: NOTIFICATION per PR Notice 98-10 Label Revisions

This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

FEE CATEGORY: Not Applicable REGISTRATION FEE: Not Applicable

July 25, 2011

Attn: Ms Kathryn Montague (Team 23)
Document Processing Desk (NOTIF)
Office of Pesticide Programs (7504C)
U.S. Environmental Protection Agency
One Potomac Yard
2777 South Crystal Drive
Arlington, VA 22202

SUBJECT: Notification of Label Revisions per Instruction of K. Montague for:

DuPontTM Velpar® L Herbicide, EPA Reg. No. 352-392

DuPont™ Velpar® DF Herbicide, EPA Reg. No. 352-581

Consistent with PR Notice 98-10

Dear Ms. Montague,

E.I. duPont de Nemours and Co. is herein submitting as Notifications per your instruction and in accordance with PR 98-10, label revisions for the two subject herbicides.

On December 23, 2010 EPA approved amendments of Velpar L and Velpar DF herbicides labels with a condition that a statement be added under the heading "Use Precautions And Restrictions Seed Alfalfa – Walla Walla County Washington" to read: "Do not apply within 30 days of harvest (cutting for hay), or feeding of forage or grazing". On January, 3, 2011 DuPont returned Final Printed Labeling in response to this approval however, the required statement was inadvertently omitted. As agreed per our meeting of July 19, 2011 DuPont has now added the required statement to the enclosed subject labels, and is submitting them to your attention by Notification.

To facilitate the processing of this action, enclosed are the following materials:

- Completed Application for Pesticide Amendment, EPA Forms 8570-1 for DuPontTM Velpar® L and DuPontTM Velpar® DF herbicides
- Three copies each of revised labeling for DuPontTM Velpar® L herbicide (SL-1583-1 072111 12-23-10), and DuPontTM Velpar® DF herbicide (SL-1582-1 072111 12-23-10), with one copy of each highlighted to indicate the change.

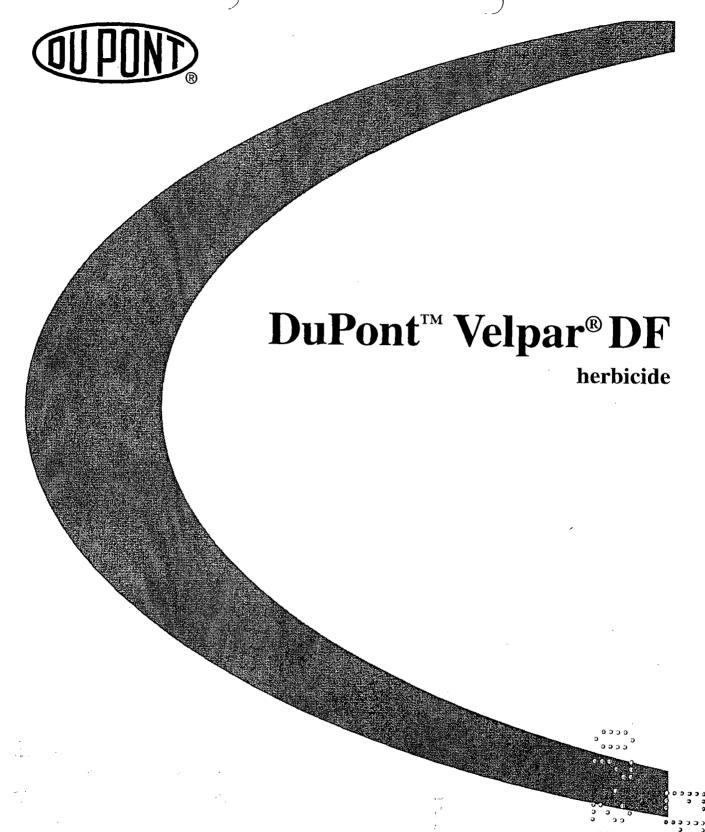
Thank you for your guidance, time and effort in handling this action. If you have any questions or require additional information please don't hesitate to contact me at 302-366-6417 or e-mail at jack.cain@usa.dupont.com.

Sincerely,

Jack Cain

Senior Registration Manager

Enclosures



Sillia II



DuPont[™] Velpar® DF

NOTIFICATION AUG 0 3 2011

herbicide

Dispersible Granules

Active Ingredient	By Weight	
Hexazinone [3-cyclohexyl-6-(dimethyl	amino)	
-1-methyl-1,3,5-triazine-2,	•	75%
Other Ingredients		25%
TOTAL		100%
EPA Reg. No. 352-581	EPA Est. No	
Nonrefillable Container		
Net:		
OR		
Refillable Container		
Net:		
E. I. duPont de Nemours and	d Company	
1007 Market Street		
Wilmington, DE 19898		

DANGER PELIGRO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand this label, find someone to explain it to you in detail.)

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 center 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 center or doctor for treatment advice.

IF SWALLOWED: Call a poison control center 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 center or doctor. Do not give anything by mouth to an unconscious person.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-441-3637 for medical emergencies involving this product.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS DANGER! CAUSES EYE DAMAGE.

Corrosive, causes irreversible eye damage. Harmful if swallowed. Do not get in eyes or on clothing. Avoid contact with skin. Wash thoroughly with soap and water after handling.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

Long-sleeved shirt and long pants.

Shoes plus socks.

Protective eyewear.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS

USERS SHOULD: Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing/PPE immediately if pesticide gets inside then wash thoroughly and put on clean clothing. Remove of PPE immediately after handling this product and assoon as possible wash thoroughly and put on clean Glothing.

ENVIRONMENTAL HAZARDS •

Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters.

The active ingredient, hexazinone, in this product is known to leach through soil into ground water, under certain conditions as a result of agricultural 30389 Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground-water contamination.

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DIRECTIONS FOR USE

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

DuPont[™] VELPAR® DF must be used only in accordance with instructions on this label, or in supplemental DuPont 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.

The correct use rates by crop and geographical area, specified on the label, and proper mixing/loading site considerations and application procedures must be followed to minimize potential for hexazinone movement into ground water. Users are encouraged to consult with their state Department of Agriculture, Extension Service, or other pesticide lead agency for information regarding soil permeability, aquifer vulnerability, and best management practices for their area.

PRODUCT INFORMATION

VELPAR® DF herbicide is a water-dispersible granule that is mixed in water and applied as a spray for weed control in certain crops, Christmas trees, forestry site preparation and release areas, and industrial areas. It may also be applied as a basal soil treatment for brush control in reforestation areas, rangeland, pastures and noncrop areas.

VELPAR® DF is an effective general herbicide providing both contact and residual control of many annual and biennial weeds and woody plants. It is also effective for control of most perennial weeds.

VELPAR® DF is noncorrosive to equipment.

Care must be exercised when applying VELPAR® DF near desirable trees or shrubs as they can absorb VELPAR® DF through roots extending in to treated areas.

This product may be applied on agricultural and non-agricultural sites that contain areas of temporary surface water caused by collection of water between planting beds, in equipment ruts, or in other depressions created by management activities. It is permissible to treat intermittent drainage, intermittently flooded low lying sites, seasonally dry flood plains and transitional areas between upland and lowland sites when no water is present. It is also permissible to treat marshes, swamps and bogs after water has receded, as well as seasonally dry flood deltas. DO NOT make applications to natural or man-made bodies of water such as lakes, reservoirs, ponds, streams and canals.

ENVIRONMENTAL CONDITIONS AND BIOLOGICAL ACTIVITY

VELPAR® DF is absorbed through the roots and foliage. Moisture is required to activate VELPAR® DF in the soil. Best results are obtained when the soil is moist at the time of application and 1/4–1/2 inches of rainfall occurs within 2 weeks after application.

For best results, apply VELPAR® DF preemergence or postemergence when weeds are less than 2 inches in height or diameter. Herbicidal activity is most effective under conditions of high temperature (above 80 °F), high humidity, and good soil moisture. Herbicidal activity may be reduced when vegetation is dormant, semi-dormant, or under stress(e.g. temperature or moisture).

Herbicidal activity will usually appear within 2 weeks after application to susceptible plants under warm, humid conditions; while 4–6 weeks may be required when weather is cool or dry, or when susceptible plants are under stress. If rainfall after application is inadequate to activate VELPAR® DF in the soil, plants may recover from contact effects and continue to grow.

On woody plants, symptoms usually appear within 3–6 weeks after sufficient rainfall has carried the herbicide into the root zone during periods of active growth. Defoliation and subsequent refoliation may occur, but susceptible plants are killed.

The degree and duration of control will depend on the following:

- Use rate
- Weed spectrum and size at time of application
- · Environmental conditions at and following treatment

Where a rate range is shown, use the higher levels of the dosage range on hard-to-control species, fine-textured soils, or soils containing greater than 5% organic matter or carbon. Use the lower levels of the dosage range on coarse-textured soils and/or on soils low in organic matter. Refer to specific uses for rate ranges.

APPLICATION INFORMATION

VELPAR® DF may be applied by ground equipment and, where permitted, aerial equipment. Use rates, minimum spray gallonage, and other application information are described for various uses.

Dispose of the equipment washwater by applying it to a usesite listed on this label or in accordance with directions given in the "Storage and Disposal" section of this label.

Before spraying, calibrate equipment to determine the quantity of water necessary to uniformly and thoroughly cover the vegetation and soil in a measured area to be treated. Make sure the volume of water is sufficient to completely suspend the VELPAR® DF.

TANK MIXTURES

VELPAR® DF herbicide may be tank mixed with other, of herbicides and /or adjuvants registered for the uses (grops) specified in the label.

Refer to the label of the tank mix partner(s) for any additional use instructions or restrictions. The most restrictive label provisions apply. If other label instructions conflict with this label do not tank mix the herbicide and/or adjuvent with VELPAR® DF herbicide.

INVASIVE SPECIES MANAGEMENT

This product may be considered for use on public, private, and tribal lands to treat certain weed species infestations that have been determined to be invasive, consistent with the Federal Interagency Committee for the Management of Noxious and Exotic Weeds (FICMNEW) National Early Detection and Rapid Response (EDRR) System for invasive plants. Effective EDRR systems address invasions by eradicating the invader where possible, and controlling them when the invasive species is too established to be feasibly eradicated. Once an EDRR assessment has been completed and action is advised, a Rapid Response needs to be taken to quickly contain, deny reproduction, and if possible eliminate the invader. Consult your appropriate state extension service, forest service, or regional multidisciplinary invasive species management coordination team to determine the appropriate Rapid Response provisions and allowed treatments in your area.

RESISTANCE

When herbicides that affect the same biological site of action are used repeatedly over several years to control the same weed species in the same field, naturally-occurring resistant biotypes may survive a correctly applied herbicide treatment, propagate, and become dominant in that field. Adequate control of these resistant weed biotypes cannot be expected. If weed control is unsatisfactory, it may be necessary to retreat the problem area using a product affecting a different site of action.

To better manage herbicide resistance through delaying the proliferation and possible dominance of herbicide resistant weed biotypes, it may be necessary to change cultural practices within and between crop seasons such as using a combination of tillage, retreatment, tank-mix partners and/or sequential herbicide applications that have a different site of action. Weed escapes that are allowed to go to seed will promote the spread of resistant biotypes.

It is advisable to keep accurate records of pesticides applied to individual fields to help obtain information on the spread and dispersal of resistant biotypes. Consult your agricultural dealer, consultant, applicator, and/or appropriate state agricultural extension service representative for specific alternative cultural practices or herbicide instructions available in your area.

INTEGRATED PEST MANAGEMENT

This product may be used as part of an Integrated Pest Management (IPM) program that can include biological, cultural, and genetic practices aimed at preventing economic pest damage. IPM principles and practices include field scouting or other detection methods, correct target pest identification, population monitoring, and treating when target pest populations reach locally determined action thresholds. Consult your state cooperative extension service, professional consultants or other qualified authorities to determine appropriate action treatment threshold levels for treating specific pest/crop systems in your area.

AGRICULTURAL USES

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 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.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 48 hours.

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

Chemical resistant gloves made of any waterproof material

Shoes plus socks

Protective eyewear

ALFALFA

DuPont[™] VELPAR® DF is labeled for control of certain weeds in established alfalfa grown for hay or seed production.

- Do not apply within 30 days of harvest (cutting for hay), or feeding of forage or grazing.
- Do not exceed 2 pounds per acre per application.
- Do not exceed 2 pounds (1.5 pounds active ingredient hexazinone) per acre per year.

APPLICATION INFORMATION

NON-DORMANT AND SEMI-DORMANT VARIETIES

In the following states, make a single application of VELPAR® DF during the winter months when alfalfa plants are in the least active stage of growth.

Washington Arizona Montana Oklahoma California Nebraska Oregon Wyoming Colorado Nevada South Dakota Idaho New Mexico Texas North Dakota Kansas

In the following states, make a single application of VELPAR® DF either in the spring before new growth exceeds 2 inches in height or to alfalfa stubble after cutting, following hay removal and before regrowth exceeds 2 inches in height.

Arkansas Maine New Jersey Vermont Connecticut Maryland New York Virginia West Virginia Delaware Massachusetts North Carolina Illinois Michigan Wisconsin Ohio Indiana Minnesota Pennsylvania Towa Missouri Rhode Island Kentucky New Hampshire Tennessee

NOTE: Severe alfalfa injury may result following application, if after cutting the regrowth is more than 2

inches high, or there is significant stubble left after cutting or grazing, or the air temperature is above 90 °F.

DORMANT VARIETIES

Make a single application of DuPontTM VELPAR® DF after alfalfa becomes dormant and before new growth exceeds 2 inches in height in the spring. Where weeds have emerged, use a surfactant.

USE RATES

Use higher rates on hard-to-control species, (see **Weeds Controlled** section below) fine textured soils, soils containing greater than 5% organic matter, or under adverse environmental conditions such as temperature extremes or when weeds are stressed due to low rainfall.

For dormant alfalfa, use a surfactant approved for crops at the rate of 0.25% v/v (1 quart per 100 gallons of spray solution).

Select the appropriate rate for soil texture and organic matter content as follows:

VELPAR® DF (Lb/Acre)
ercent Organic Matter in Soil

	Percent	Organic Man	er in Son
Soils	<1%	1-5%	>5%
Coarse Texture			
Loamy sand, sandy loam	2/3 - 1	2/3 - 1	1 1/3 -2
Medium Texture		-	
Loam, silt loam, silt, clay loam, sandy clay loam	2/3 - 1	1 - 2	1 1/3 - 2
FineTexture			
Silty clay loam, sandy clay, silty clay, clay	1 - 2	1 - 2	1 1/3 - 2

NOTE:

- In the states of MT, ND, SD, and WY, do not exceed a use rate of 1 1/3 pounds per acre on medium and fine textured soils.
- In the state of Montana (MT), do not apply to soils with less than 1.5% organic matter.
- In the state of Wyoming (WY):
 Do not apply to soils with less than 0.5% organic matter.
 Apply to irrigated alfalfa only.

WEEDS CONTROLLED

VELPAR® DF, when applied preemergence or early postemergence at the following rates, is labeled for the control or suppression of the following species in alfalfa:

1/3 - 2/3 Lb/Acre

Tansymustard

Descurainia pinnata

2/3 - 1 1/3 Lb/Acre

Bluegrass, annual Brome, downy (cheatgrass) Buckwheat, wild Catchfly, English Chamomile, mayweed (dogfennel) Chickweed, common Fiddleneck, tarweed Filaree Flixweed Groundsel, common Henbit* Lettuce, Miner's Mustard, blue Mustard, Jim Hill (tumble) Mustard, wild Orchardgrass (seedling) Pennycress, field Pigweed, redroot Radish, wild Rocket, London Rocket, common yellow Salsify Shepherdspurse Speedwell, purslane Spurry, corn

Poa annua Bromus tectorum Polygonum convolvulus Silene gallica Anthemis cotula Stellaria media Amsinckia lycopsoides Erodium sp. Descurainia Sophia Senecio vulgaris Lamium amplexicaule Montia perfoliata Chorispora tenella Sisymbrium altissimum Brassica kaber Dactylis glomerata Thlaspi arvense Amaranthus retroflexus Raphanus raphanistrum Sisymbrium irio Barbarea vulgaris Tragopogon spp. Capsella bursa-pastoris Veronica peregrina Spergula arvensis

1 1/3 - 2 Lb/Acre

Alfalfa* (seedling) Medicago sativa Barley, foxtail (seedling) Hordeum jubatum Bluegrass, perennial* (spring only) Poa spp Cockle, white* Melandrium album Dandelion, common* Taraxacum officinale Dandelion, false* (spotted catsear) Hypochaeris radicata Foxtail* Setaria spp Kochia Kochia scoparia Lambsquarters, common Chenopodium album Lettuce, prickly' Lactuca serriola Mallow, common Malva neglecta Ryegrass, Italian (annual) Lolium multiflorum Elytrigia repens Quackgrass* Speedwell, ivyleaf Veronica hederaefolia Tea, Mexican* Chenopodium ambrosioides Thistle, Canada (seedling) Cirsium arvense Thistle, Russian Salsola iberica

* Suppression - a visible reduction in plant population and/or plant vigor as compared to an untreated area and generally not accepted as control.

VELPAR® DF, when applied in late spring or after cutting at the following rates, will control these species listed below:

2/3 - 2 Lb/Acre

Crabgrass Digitaria spp
Fleabane Conyza spp
Foxtail Setaria spp.
Jimsonweed Datura stramonium
Lambsquarters, common Chenopodium album
Pigweed, redroot Amaranthus retroflexus

SEED ALFALFA (CA, ID, MT, NV, OR, UT, WA)

VELPAR® DF may be used for general broadleaf weed and grass control in established alfalfa grown for seed.

DORMANT VARIETIES

Make a single application of DuPontTM VELPAR® DF after alfalfa becomes dormant and before new growth exceeds 2 inches in height in the spring. Where weeds have emerged, use a surfactant.

NON-DORMANT AND SEMI-DORMANT VARIETIES

In the following states, make a single application of VELPAR® DF during the winter months when alfalfa plants are in the least active stage of growth.

WEEDS CONTROLLED

Refer to the Alfalfa - Weeds Controlled section for specific use rates and weeds controlled.

USE PRECAUTIONS AND RESTRICTIONS SEED ALFALFA

- Do not apply within 30 days of harvest (cutting for hay), or feeding of forage or grazing.
- Do not use VELPAR® DF on fields with sandy loam or loamy sand soils having less than 1% organic matter.
- Do not exceed 2/3 pound per acre on fields with sandy loam or loamy sand soils having 1–2% organic matter.
- Do not exceed 2/3 pound per acre on seed alfalfa that has been established for only one growing season.

SEED ALFALFA WALLA WALLA COUNTY, WASHINGTON

VELPAR® DF Herbicide may be used for the suppression of prickly lettuce and quackgrass and control of Canada thistle (seedling), kochia, and certain other weeds in established alfalfa grown for seed.

Use Rates: 1 1/3 to 2 pounds per acre

Kochia Kochia scoparia
Lettuce, prickly* Lactuca serriola
Quackgrass* Elytrigia repens
Thistle, Canada (seedling) Cirsium arvense

* Suppression

USE PRECAUTIONS AND RESTRICTIONS SEED ALFALFA - WALLA WALLA COUNTY WASHINGTON

Do not apply within 30 days of harvest (cutting for hay), or feeding of forage or grazing.

Do not exceed 2 pounds VELPAR® DF herbicide per acre per application.

Do not exceed 2 pounds (1.5 pounds active ingredient hexazinone) per acre per year.

SPRAY EQUIPMENT

Apply VELPAR® DF using a fixed boom power sprayer or aerial equipment.

For ground applications apply in a minimum of 20 gallons of spray solution per acre and by air in a minimum of 5 gallons.

WIND STATE

CHEMIGATION ALFALFA

Apply this product only through center pivot or linear-move sprinkler irrigation systems. Do not apply this product through any other type of irrigation system.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from nonuniform distribution of treated water.

Severe alfalfa injury may result following application after cutting if either the regrowth is more than 2" high or significant stubble is left after alfalfa cutting.

If you have questions about calibration, you may contact State Extension Service specialists, equipment manufacturers or other experts.

A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments when needed.

DORMANT APPLICATIONS

Select the appropriate rate (see **Use Rates** section) for soil texture and organic matter content using 0.25" to 0.75" of sprinkler irrigation as a continuous injection during the application. Best results are obtained when soil is moist at time of application, and when weeds have not germinated or are less than 2" tall or across.

APPLICATION AFTER CUTTING

Apply VELPAR® DF at 5.3 ounces per acre to stubble after cutting, following hay removal, and before regrowth exceeds 2" in height. Apply VELPAR® DF using 0.25" to 0.75" of sprinkler irrigation as a continuous injection during the application. Best results are obtained when soil is moist at time of application and when weeds have not germinated or are less than 2" tall or across.

NOTE: Making an application when daily temperatures are forecast to be in the mid-to-high 90 degree range within 3 to 5 days after treatment may increase the potential for crop injury.

SPRINKLER CHEMIGATION

The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

MIXING INSTRUCTIONS

- 1. Fill the supply tank 1/4 to 1/3 full of water.
- While agitating, add the required amount of DuPontTM VELPAR® DF and continue agitation until the VELPAR® DF is fully dispersed, at least 5 minutes.
- Once the VELPAR® DF is fully dispersed, maintain agitation and continue filling tank with water.
 VELPAR® DF must be thoroughly mixed with water before adding any other material.
- 4. As the tank is filling, add tank mix partners (if desired). Follow use precautions and directions on the tank mix partner label.
- 5 After thorough mixing, the agitation system can be stopped to prevent excessive foaming in the tank. Once thoroughly mixed the solution in the supply tank does not require additional agitation unless specified on the companion products label. If foaming occurs in the injection supply tank, a defoaming agent (defoamer) may be added.
- Apply VELPAR® DF spray mixture within 48 hours of mixing to avoid product degradation.

USE PRECAUTIONS AND RESTRICTIONS - CHEMIGATION

- Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label prescribed safety devices for public water systems are in place.
- Distributing treated water in an uneven manner can result
 in crop injury, lack of effectiveness, or over-tolerance
 pesticide residues in the crop. Therefore, to ensure that
 the mixture is applied evenly at the labeled rate, use
 sufficient water, apply the mixture for the proper length of
 time and ensure sprinkler produces a uniform water
 pattern.
- Do not permit run-off during chemigation.

POSTING OF AREAS TO BE TREATED

Posting of areas to be chemigated is required when 1) any part of a treated area is within 300 feet of sensitive areas such as residential areas, labor camps, businesses, daycare centers, hospitals, in-patient clinics, nursing homes, or any public areas such as schools, parks, playgrounds, or other public facilities not including public roads, or 2) when the chemigated area is open to the public such as golf courses or retail greenhouses.

Posting must conform to all the following requirements:

- Treated areas shall be posted with signs at all usual points
 of entry and along likely routes of approach from the
 listed sensitive areas. When there are no usual points of
 entry, signs must be posted in the corners of the treated
 areas and in any other location affording maximum
 visibility to sensitive areas.
- The printed side of the sign must face away from the treated area towards the sensitive area. The signs shall be

- printed in English. Signs must be posted prior to application and must remain posted until foliage has dried and soil surface water has disappeared. Signs may remain in place indefinitely as long as they are composed of materials to prevent deterioration and maintain legibility for the duration of the posting period.
- All words shall consist of letters at least 2 1/2 inches tall, and all letters and the symbol shall be a color which sharply contrasts with their immediate background. At the top of the sign shall be the words "KEEP OUT", followed by an octagonal stop sign symbol at least 8 inches in diameter containing the word "STOP". Below the symbol shall be the words "PESTICIDE IN IRRIGATION WATER".
- Posting required for chemigation does not replace other posting and reentry requirements for farm worker safety.

REPLANTING (FOLLOWING ALFALFA)

- Do not replant treated areas to any crop except corn, root crops or sugarcane within two years after treatment, as crop injury may result.
- Corn may be planted 12 months after the last treatment in areas of moderate to high rainfall (greater than 20 inches), provided the use rate did not exceed 1 lb per acre.
- Root crops such as potatoes, sugarbeets, radish and carrots
 may be planted 12 months after last treatment, provided the
 use rate does not exceed 2/3 lb per acre. Sites with use
 rates higher than 2/3 lb per acre must not be replanted to
 any root crop within 2 years after application of VELPAR®
 DF, or unacceptable crop injury may result.
 - In areas where irrigation is needed to produce the crop, the crop rotation intervals listed may need to be extended if the normal irrigation amount is reduced for any reason.
- Sugarcane may be planted any time following treatment.
- In California, do not replant seed alfalfa areas to any crop within two years after treatment, as crop injury may result.

CROP ROTATION

Field Bioassay

In arid climates (10 inches of rainfall or less per year) or areas where drought conditions have prevailed for one or more years, a field bioassay must be completed prior to planting any desired crop. The results of this bioassay may require the rotation intervals listed above to be extended.

A successful bioassay means growing to maturity a test strip of the crop(s) intended for production. The test crop(s) strip must cross the entire field including knolls, low areas, and areas where any berms were located.

ALFALFA - IMPREGNATION ON DRY BULK FERTILIZER (EXCEPT CALIFORNIA AND ARIZONA)

Dry bulk fertilizer may be impregnated or coated with VELPAR® DF for application to established alfalfa. All instructions on this label must be followed along with state regulations relating to dry bulk fertilizer blending, impregnating and labeling.

If fertilizer materials are excessively dusty, use a suitable additive to reduce dust prior to impregnation, as dusty fertilizer will result in poor distribution during application. The dry fertilizer must be properly impregnated and uniformly applied to the alfalfa to avoid crop injury and/or poor weed control.

To impregnate the fertilizer, use a system consisting of a conveyor or closed drum used to blend dry bulk fertilizer. Any commonly used fertilizer can be impregnated with DuPontTM VELPAR® DF, except potassium nitrate or sodium nitrate. Do not use VELPAR® DF on limestone.

Use a minimum of 250 lb dry bulk fertilizer per acre and up to a maximum of 450 lb per acre. To impregnate or coat the dry bulk fertilizer with VELPAR® DF, mix 2 2/3 pounds of VELPAR® DF with sufficient water to make one gallon of suspension and thoroughly agitate. Direct the nozzles to deliver a fine spray of this suspension toward the fertilizer for thorough coverage while avoiding spray contact with mixing equipment. Uniform impregnation of VELPAR® DF to dry bulk fertilizer will vary, and if the absorptivity is not adequate, the use of an absorptive powder may be required to produce a dry, free-flowing mixture. "Microcel E" is the absorbent powder of choice. When another herbicide is used with VELPAR® DF, mix and impregnate the fertilizer immediately.

Apply impregnated fertilizer as soon as possible after impregnation for optimum performance.

Select the rate of VELPAR® DF to apply per acre from the appropriate section of this label. Then refer to the rate chart below to determine the amount of VELPAR® DF that is to be impregnated on a ton of dry bulk fertilizer, based on the amount of fertilizer to be distributed in one acre.

Rate Chart for Impregnating Fertilizer with VELPAR® DF Fertilizer VELPAR® DF Rate Per Acre

		-		
Rate/Acre	2/3 Lbs	1 Lbs	1 1/3 Lbs	2 Lbs
250 lbs	5.3 lbs/ton	8.0 lbs/ton	10.6 lbs/ton	16.0 lbs/ton
300 lbs	4.4 lbs/ton	6.6 lbs/ton	8.8 lbs/ton	13.3 lbs/ton
350 lbs	3.7 lbs/ton	5.7 lbs/ton	7.5 lbs/ton	11.4 lbs/ton
400 lbs	3.3 lbs/ton	5.0 lbs/ton	6.7 lbs/ton	10.0 lbs/ton
450 lbs	2.9 lbs/ton	4.4 lbs/ton	5.9 lbs/ton	8.9 lbs/ton

For rates other than those listed, use the following formula to calculate the amounts of VELPAR® DF to be impregnated per ton of dry fertilizer.

Lbs VELPAR® DF X 1 Ton = Lbs VELPAR® DF per Per Acre Fertilizer Ton of Fertilizer

APPLICATION

Uniform application of VELPAR® DF-impregnated dry fertilizer is essential for satisfactory weed control. Accurate calibration of the application equipment is essential for uniform distribution to the surface. The customary method of application is to apply 1/2 the labeled rate and overlap 50%. This results in the best distribution pattern.

USE PRECAUTIONS AND RESTRICTIONS - ALFALFA

 Best results are obtained when 1/2-1 inches of rainfall or sprinkler irrigation occurs within two weeks after application, when soil is moist at time of application, and when weeds have not germinated or are less than 2 inches in height or diameter. Heavy rainfall or excessive irrigation after application may result in crop injury or poor performance of the herbicide.

- On soils high in organic matter (greater than 5%), the effectiveness of VELPAR® DF can be significantly reduced and weed control may be unsatisfactory.
- Avoid overlapping of spray swaths and shut off spray booms while starting, turning, slowing or stopping or crop injury may result.
- Crop injury, including mortality, may result in fields with restricted root growth due to non-uniform soil profiles such as gravel bases and clay lenses.
- Crop injury may result if hot weather, mid-to-high 90 degree range or higher, occurs within a few days after application.
- · Do not apply to snow-covered or frozen ground.
- Crop injury to alfalfa can be influenced by several factors including alfalfa variety, soil conditions, uniformity of application and environmental conditions, etc., if no prior use history for the site or variety, treat only a small area when first using VELPAR® DF.
- If abnormally dry conditions exist following application, restrict the first irrigation to no more than 1/2 acre inch of water
- Temporary yellowing of alfalfa may occur following VELPAR® DF applications.
- Treat only stands of alfalfa established for one year or for one growing season (except in California), provided:
- -The alfalfa stand has a well developed tap root structure that is at least 10 inches in length (0.25 inch diameter below the crown) throughout the field and the crop is healthy, vigorous, and not under stress from weather conditions, low fertility, insects or disease damage.
- -In areas with shorter growing seasons, such as, higher elevations, adequate alfalfa tap root growth may not occur and especially when alfalfa is grown together with a cover or nurse crop. If an adequate tap root is not present, delay application of VELPAR® DF until the alfalfa has gone through a minimum of two growing seasons.
- In California, fall planted alfalfa may be treated in the following winter months with VELPAR® DF at 1/3 to 2/3 pounds per acre (use higher rate for fine textured soils) provided:
 - alfalfa root growth exceeds 6 inches in length
 - vegetative top growth of alfalfa has lateral development of secondary growth
 - alfalfa is healthy and vigorous, not growing under stress from insect, disease, winter injury or other types of stress.

Injury may result to alfalfa plants that fail to meet these growth criterion listed above.

 Do not use VELPAR® DF on seedling alfalfa, alfalfa-grass mixtures, or other mixed stands as injury may result to the seedling alfalfa or companion crop.

- Do not use a surfactant with DuPont™ VELPAR® DF when treating non-dormant alfalfa.
- Do not use VELPAR® DF on gravelly or rocky soils, exposed subsoils, hardpan, sand, poorly drained soil, or alkali soils.

BLUEBERRY

HIGH BUSH BLUEBERRIES

VELPAR® DF is labeled for control of certain herbaceous and woody weeds in established high bush blueberry fields.

APPLICATION INFORMATION

VELPAR® DF may be applied to high bush blueberries that have been established for 3 or more years. Apply VELPAR® DF in the spring before the lower leaves of the blueberry plant have fully expanded. Avoid contact of the leaves with the spray solution.

Using calibrated ground spray equipment, make the application in sufficient water to provide thorough and uniform coverage to the treated area (usually 20 gallons per acre). Shut off spray booms when starting, turning, slowing or stopping, or injury to the crop may result.

USE PRECAUTIONS AND RESTRICTIONS HIGH BUSH BLUEBERRIES

- Do not apply through any type of irrigation system.
- Do not apply within 90 days of harvest.
- Do not apply to flooded field with standing water.
- Application to blueberry foliage will result in crop injury.
- Since the effect of VELPAR® DF on blueberries varies with soil type, plant vigor, uniformity of applications and amount of rainfall, it is suggested that growers limit their first use to small areas.

USE RATES (Lbs/Acre) HIGH BUSH BLUEBERRIES

Soil texture	less than or equal to 3% organic matter	greater than 3% organic matter
Coarse loamy sand, sandy loam (50-85% sand)	1.3	1.6
Medium loam, silt loam, silt, clay loam, sandy clay loam		2.6
Fine silty clay loam, clay loam, sandy clay, silty clay, clay	1.3 - 2*	2.6

^{*}Use the higher rate as the soil organic matter approaches 3%.

LOW BUSH BLUEBERRIES

VELPAR® DF may be used for the control of certain weeds in low bush blueberries.

APPLICATION INFORMATION

VELPAR® DF may only be applied to pruned blueberry fields in the spring before leaf emergence. Using calibrated ground spray equipment, make the application in sufficient water to provide thorough and uniform coverage to the treated area (usually 20 gallons per acre). Shut off spray

booms when starting, turning, slowing or stopping, or injury to the crop may result.

USE PRECAUTIONS AND RESTRICTIONS LOWBUSH BLUEBERRIES

- Do not apply through any type of irrigation system.
- Do not apply to flooded field with standing water.
- Do not apply within 450 days of harvest.
- Do not exceed 2.4 pounds per acre if field has been treated with hexazinone within the past 8 years.
- Application to blueberry foliage will result in crop injury.
- Since the effect of VELPAR® DF on blueberries varies with soil type, plant vigor, uniformity of applications and amount of rainfall, it is suggested that growers limit their first use to small areas. If excessive leaf drop is observed after treatment, reduce rate in future applications.
- Maintain a 50 foot buffer from any well head or water reservoir.

LOW BUSH BLUEBERRIES (LBS/ACRE)

Soil texture	less than or equal to 3% organic matter	greater than 3% organic matter	
Coarse loamy sand, sandy loam (50-85% sand)	1.2	1.6	
Medium loam, silt loam, silt, clay loam, sandy clay loam		2 .	
Fine silty clay loam, clay loam, sandy clay, silty clay, clay	1.2 - 2.4*	2.4 - 3.6**	

^{*}Use the higher rate as the soil organic matter approaches 3%.
**Use the higher rate for harder to control species.

IMPREGNATION ON DRY BULK FERTILIZER

Dry bulk fertilizer may be impregnated or coated with VELPAR® DF for application to established high bush or low bush blueberries.. All instructions on this label must be followed along with state regulations relating to dry bulk fertilizer blending, impregnating and labeling.

If fertilizer materials are excessively dusty, use a suitable additive to reduce dust prior to impregnation, as dusty fertilizer will result in poor distribution during application. The dry fertilizer must be properly impregnated and uniformly applied to the alfalfa to avoid crop injury and/or poor weed control.

To impregnate the fertilizer, use a system consisting of a conveyor or closed drum used to blend dry bulk fertilizer. Any commonly used fertilizer can be impregnated with VELPAR® DF, except potassium nitrate or sodium nitrate. Do not use VELPAR® DF on limestone.

Use a minimum of 250 lb dry bulk fertilizer per acre and up to a maximum of 450 lb per acre. To impregnate or coat the dry bulk fertilizer with VELPAR® DF, mix 2 2/3 pounds of VELPAR® DF with sufficient water to make one gallon of suspension and thoroughly agitate. Direct the nozzles to

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deliver a fine spray of this suspension toward the fertilizer for thorough coverage while avoiding spray contact with mixing equipment. Uniform impregnation of DuPontTM VELPAR® DF to dry bulk fertilizer will vary, and if the absorptivity is not adequate, the use of an absorptive powder may be required to produce a dry, free-flowing mixture. "Microcel E" is the absorbent powder of choice. When another herbicide is used with VELPAR® DF, mix and impregnate the fertilizer immediately.

Apply impregnated fertilizer as soon as possible after impregnation for optimum performance.

Select the rate of VELPAR® DF to apply per acre from the appropriate section of this label. Then refer to the rate chart below to determine the amount of VELPAR® DF that is to be impregnated on a ton of dry bulk fertilizer, based on the amount of fertilizer to be distributed in one acre.

Rate Chart for Impregnating Fertilizer with VELPAR® DF

VELPAR® DF Rate Per Acre			
2/3 Lbs	1 Lbs	1 1/3 Lbs	2 Lbs
5.3 lbs/ton	8.0 lbs/ton	10.6 lbs/ton	16.0 lbs/ton
4.4 lbs/ton	6.6 lbs/ton	8.8 lbs/ton	13.3 lbs/ton
3.7 lbs/ton	5.7 lbs/ton	7.5 lbs/ton	11.4 lbs/ton
3.3 lbs/ton	5.0 lbs/ton	6.7 lbs/ton	10.0 lbs/ton
2.9 lbs/ton	4.4 lbs/ton	5.9 lbs/ton	8.9 lbs/ton
	2/3 Lbs 5.3 lbs/ton 4.4 lbs/ton 3.7 lbs/ton 3.3 lbs/ton	2/3 Lbs 1 Lbs 5.3 lbs/ton 8.0 lbs/ton 4.4 lbs/ton 6.6 lbs/ton 3.7 lbs/ton 5.7 lbs/ton 3.3 lbs/ton 5.0 lbs/ton	2/3 Lbs 1 Lbs 1 1/3 Lbs 5.3 lbs/ton 8.0 lbs/ton 10.6 lbs/ton 4.4 lbs/ton 6.6 lbs/ton 8.8 lbs/ton 3.7 lbs/ton 5.7 lbs/ton 7.5 lbs/ton 3.3 lbs/ton 5.0 lbs/ton 6.7 lbs/ton

For rates other than those listed, use the following formula to calculate the amounts of VELPAR® DF to be impregnated per ton of dry fertilizer.

Lbs VELPAR® DF X 1 Ton = Lbs VELPAR® DF per Per Acre Fertilizer Ton of Fertilizer

APPLICATION

Uniform application of VELPAR® DF-impregnated dry fertilizer is essential for satisfactory weed control. Accurate calibration of the application equipment is essential for uniform distribution to the surface. The customary method of application is to apply 1/2 the labeled rate and overlap 50%. This results in the best distribution pattern.

WEEDS CONTROLLED

VELPAR® DF is labeled for the control or suppression of the following species in high and low bush blueberry crops:

Aster, heath* Barnyardgrass Blackberry* (briar) Bluegrass, Kentucky (perennial)*
Brome, downy (cheatgrass) Broomsedge* Carrot, wild* Catchfly, English Chamomile, mayweed Cherry, wild Chickweed, common Cinquefoil Cockle, white* Dandelion, common* Dandelion, false* (spotted catsear) Daisy, oxeye Dock, curly* Dogfennel Fescue* Fiddleneck, tarweed Filaree Fireweed*(willowweed) Fleabane, flax-leaved Flixweed Foxtail, yellow Goldenrod Groundsel, common Hawkweed Horseweed/marestail Jimsonweed Lambsquarters, common Lettuce, Miner's Lettuce, prickly* Mustard, blue Mustard, Jim Hill (tumble) Orchardgrass * Orchardgrass (seedling) Panicgrass (witchgrass) Panicum, fall Pearly everlasting Pennycress, field Pigweed, redroot Quackgrass Radish, wild Ragweed, common Raspberry* (briar) Rocket, London Rocket, common yellow Ryegrass, Italian (annual) Ryegrass, perennial* Salsify Shepherdspurse Smartweed, Pennsylvania Sorrel, red Sorrel, sheep Spurry, corn Strawberry, wild Tansymustard (pinnate) Tea, Mexican* Velvetgrass Yarrow

2.4 to 3.6 Lbs/acre
Dogbane**
Meadow-sweet

Meadow-sweet Blackberry, trailing Laurel, sheep Rose, wild** Aster ericoides Echinochloa crus-galli Rubus spp

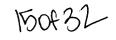
Poa pratensis
Bromus tectorum
Andropogon virginicus
Daucus carota
Silene gallica
Anthemis cotula
Prunus serotia
Stellaria media
Potentilla spp
Melandrium album
Taraxacum officinale

Hypochaeris radicata Chrysanthemum leucanthemum Rumex crispus Eupatorium capillifolium Festuca spp Amsinckia lycopsoides Erodium spp Epilobium angustifolium Conyza bonariensis Descurainia Sophia Setaria lutescens Solidago spp Senecio vulgaris Hieracium spp Convza canadensis Datura stramonium Chenopodium album Montia perfoliata Lactuca serriola Chorispora tenella Sisymbrium altissimum Dactylis glomerata Dactylis glomerata Panicum capillare Panicum dichotomiflorum Anaphalis margaritacea Thlaspi arvense Amaranthus retroflexus Agropyron repens Raphanus raphanistrum Ambrosia elatior Rubus spp Sisymbrium irio Barbarea vulgaris Lolium multiflorum Lolium perenne Tragopogon spp Capsella bursa-pastoris Polygonum pensylvanicum Rumex acetosella Rumex angiocarpus Spergula arvensis Fragaria virginiana Descurainia pinnata Chenopodium ambrosioides Holcus lanatus Achillea spp

Apocynum spp Filipendula ulmaria Rubus ursinus Kalmia angustifolia Rosa spp

^{*} Suppression – a visible reduction in plant population and/or plant vigor as compared to an untreated area and generally not accepted as control.

^{**} Harder to control species.



CHRISTMAS TREES

DuPont™ VELPAR® DF is labeled for control of certain weeds where the following species are grown:

Fir, noble Pine, Austrian Pine, loblolly Pinus taeda Pinus taeda
D: D:
Pine, ponderosa Pinus ponderosa
Pine, Scotch Pinus sylvestris
Spruce, Sitka Picea sitchensis

Unless otherwise directed in separately published DuPont instructions, do not use VELPAR® DF on Christmas trees in the following states:

Alabama	Louisiana	New Jersey	Texas
Arkansas	Maine	New York	Vermont
Connecticut	Maryland	North Carolina	Virginia
Delaware	Massachusetts	Pennsylvania	West Virginia
Georgia	Mississippi	Rhode Island	_
Florida	New Hampshire	South Carolina	

APPLICATION INFORMATION

EASTERN US

Apply VELPAR® DF as a broadcast spray in the spring prior to bud break. If application is made after bud break, use directional spray equipment to prevent contact with foliage.

WESTERN US

Areas of greater than 20 inches annual rainfall - VELPAR® DF may be applied as a broadcast spray in the spring prior to conifer bud break. If application is made after bud break, use directional spray equipment to prevent contact with foliage.

Areas of less than 20 inches annual rainfall - VELPAR® DF may be applied in the fall before the soil freezes or in the spring after snow cover melts, but before conifer bud break occurs.

USE RATES

The rates listed below are for broadcast application. For band application, use proportionately less; for example, use 1/2 of the broadcast rates when treating a 3-foot band where row spacing is 6 feet. Use the higher end of the rate range on the heavier soil type.

Do not use more than one application of VELPAR® DF per year.

J				
	VELPAR® DF (Lb/Acre)			
Soils	First Year Plantings	Established Trees		
Coarse Texture				
Loamy sand, sandy loam	7			
(50-85% sand)	1 1/3	1 1/3 - 1 2/3		
Medium Texture	1 5:			
Loam, silt loam, silt, clay loam, sandy clay loam	1 1/3 - 1 2/3	1 2/3 - 2 1/3		
Fine Texture		12/0 21/0		
Silty clay loam, clay loam,				
sandy clay, silty clay, clay	1 2/3 - 2	2 1/3 - 2 2/3		

First year plantings - Transplant stock that is 2 years old or more (1 year old for loblolly pine). Apply VELPAR® DF only if rainfall has settled the soil around the base and root systems of the transplants.

Established trees - Trees that have been planted in the plantation for 1 year or more.

WEEDS CONTROLLED

Anton booth*

VELPAR® DF is labeled for the control or suppression of the following weed species in Christmas tree crops:

Aston omiopidas

Aster, heath*	Aster ericoides
Barnyardgrass	Echinochloa crus-galli
Bentgrass, common	Agrostis alba
Bluegrass, annual	Poa annua
Bromegrass	Bromus spp
Burnweed, American*	Erechtites hieracifolius
Carrot, wild	Daucus carota
Crabgrass*	Digitaris spp
Curly dock*	Rumex crispus
Daisy, oxeye	Chrysanthemum leucanthemum
Dandelion, common*	Taraxacum officinale
Dandelion, false*	
(spotted catsear)	Hypochaeris radicata
Fescue*	Festuca spp
Fleabane	Conyza spp
Foxtail	Setaria spp
Goldenrod*	Solidago spp
Groundsel, common	Senecio vulgaris
Horseweed/marestail	Conyza canadensis
Orchardgrass *	Dactylis glomerata
Ragweed, common	Ambrosia elatior
Ryegrass, Italian (annual)	
Ryegrass, perennial*	Lolium perenne
Smartweed, Pennsylvania	
Velvetgrass, common	Holcus lanatus

^{*} Suppression – a visible reduction in plant population and/or plant vigor as compared to an untreated area and generally not accepted as control.

SPRAY EQUIPMENT

VELPAR® DF may be applied by ground equipment or by air. Select a spray volume that will ensure a thorough and uniform application. Apply a minimum of 5 gallons per acre by air and a minimum of 10 gallons per acre by ground equipment.

USE PRECAUTIONS AND RESTRICTIONS CHRISTMAS TREES

- Do not use VELPAR® DF in nurseries, seed beds, or ornamental plantings.
- Do not add a surfactant in applications over the top of conifers.
- Weed control results from spring applications depend on sufficient moisture to activate VELPAR® DF.
- Livestock may be grazed immediately following a broadcast application of VELPAR® DF at rates of 1.5 pounds per acre or less, and treated vegetation may be cut, dried, and fed after 38 days.
- Do not cut treated vegetation for feed, or graze livestock on treated areas for 60 days following application of VELPAR® DF at broadcast rates exceeding 1.5 pounds per acre.

- · Poor weed and brush control may result from the following:
 - -Heavy duff or slash present at the time of application.
 - -Use on poorly drained sites.
 - -Applications made when soil is saturated with water and rain is imminent within 24 hours.
 - -Applications to soils high in organic matter (greater than 5%).
- Injury may occur when DuPont™ VELPAR® DF is used on the following:
 - Trees that show poor vigor, insect damage, disease, winter injury, or other stress conditions.
 - -Any soil containing less than 1% organic matter.
 - -Loamy sand or sandy loam with less than 2% organic matter (except Jeffrey Pine and Ponderosa Pine).
 - -Foliage after bud break.
 - -Gravelly or rocky soils, exposed subsoils, clay knobs, sand, or sandy soil with 85% or more sand.

PINEAPPLE

VELPAR® DF is labeled for control of certain weeds in pineapple.

APPLICATION INFORMATION

Mix the proper amount of VELPAR® DF in water. Add a surfactant at the rate of 0.25% V/V.

Use the lower rates on coarse-textured soils or in areas where rainfall exceeds 65 inches per year. Use the higher rates on fine-textured soils or in areas where rainfall is less than 65 inches per year.

Intercrop period - Apply VELPAR® DF as a broadcast spray in 100–400 gallons of water per acre at the rate of 1/3 - 2 1/3 pounds per acre. For aerial application, use at least 10 gal water per acre.

Post mulch, preplant - Apply VELPAR® DF as a broadcast spray in 100–400 gallons of water per acre at the rate of 1/3 - 2 1/3 pounds per acre.

Post plant, before planted cuttings start active growth - Apply VELPAR® DF as a broadcast spray in 100–400 gallons of water per acre at the rate of 1/3 - 2 1/3 pounds per acre. When weed growth has escaped control by other herbicide applications, a post-planting application may be made after the planted cuttings start to grow.

Prior to forcing first ratoon - Apply VELPAR® DF as a broadcast spray in 100–400 gallons of water per acre at the rate of 1/3 - 2 1/3 pounds per acre.

Directed postemergence (pineapple and weeds) interspace application - Apply VELPAR® DF as a directed spray 3–10 months after planting in 50–200 gallons of water per acre (broadcast basis) at the rate of 1/3 - 2 1/3 pounds per acre (broadcast basis) using a stroller boom or knapsack.

Directed spot treatments for perennial grasses before floral induction - Spray perennial grasses postemergence to wet (50–200 gallons per acre depending on size) with 1 1/3 - 2 1/3 pounds per 100 gallons of water as a spot treatment.

Treatments to field edges and roadsides - Apply VELPAR® DF at 2 1/3 - 4 8/10 pounds per acre in 100-400 gallons of water.

WEEDS CONTROLLED

VELPAR® DF is labeled for the control or suppression of the following species in pineapple crops:

Ageratum, tropic Ageratum conycoides Balsamapple Momordica charantia Castorbean Ricinus communis Crabgrass Digitaria spp Crotalaria Crotolaria spp **Dallisgrass** Paspalum dîlatatum Guineagrass Panicum maximum Junglerice Echinochloa colonum Kao haole* Leucaena glauca Moana loa vine* Canavalia cathartica Morningglory Ipomoea spp Oxalis spp Oxalis Popolo Solanum sandwicense Richardsonium Richardsonia spp Vaseygrass Paspalum urvillei

* Suppression – a visible reduction in plant population and/or plant vigor as compared to an untreated area and generally not accepted as control.

USE PRECAUTIONS AND RESTRICTIONS

- PINEAPPLE
- Do not exceed 4.8 lb VELPAR® DF per acre per crop.
- Do not apply VELPAR® DF within 181 days of harvest.

SUGARCANE

VELPAR® DF is labeled for selective weed control in sugarcane except in the State of Florida.

APPLICATION INFORMATION

Apply a single treatment of VELPAR® DF per year using a fixed-boom sprayer and a minimum of 25 gallons per acre unless otherwise directed.

HAWAII

Apply VELPAR® DF pre- or postemergence at the following rates for the indicated soil texture:

VELPAR® DF (Lb/Acre)
(Plus surfactant

Soils
0.25% by volume)

Coarse Texture

Sand, loamy sand, sandy loam
Medium Texture

Loam, silt loam, silty clay loam

Fine Texture

Clay, gray hydromorphic clay

2 1/3 - 4 8/10

DuPontTM

Use the higher levels of the labeled rate ranges on soils high in organic matter. Do not apply more than twice the highest labeled rate for the indicated soil texture per crop (18–24 months).

Add an adjuvant for all uses.

For preemergence use only, DuPont[™] VELPAR® DF may be applied with aerial equipment using at least 10 gallons of spray per acre.

Apply VELPAR® DF herbicide as a spot spray application for emerged weeds in sugarcane. Mix 1 to 4 pounds of VELPAR® DF per 100 gallons of water. Apply a sufficient volume of spray solution to thoroughly wet weed foliage but do not exceed a use rate of 4.8 pounds per acre. Use the lower concentrations on coarse-textured soils that are low in organic matter, and use the higher concentrations on fine-textured soils that are high in organic matter.

LOUISIANA

Apply 2/3 - 1 2/10 pound of VELPAR® DF per acre broadcast in the fall before sugarcane emerges or in the spring before active cane tillering begins. Fall treatments of 2/3 - 1 2/10 pound per acre may be followed by a spring treatment of 2/3 - 1 2/10 pound per acre. Do not apply more than 2 pound per year. Use the lower rates on coarse textured soils and the higher rates on fine textured soils.

PUERTO RICO

For preemergence treatments, apply 1/3 - 2/3 pound of VELPAR® DF per acre.

For postemergence treatments, apply 1/3 - 2/3 pound of VELPAR® DF per acre to weeds after they have emerged. Use the lower rates on coarse-textured soils and the higher rates on fine-textured soils (high in clay or organic matter). Each ratoon may receive up to 2/3 pound of VELPAR® DF per acre.

For spot treatment of emerged weeds, VELPAR® DF may be applied with a knapsack sprayer in concentrations of 1/3 - 2/3 pound per 100 gallons of water. Apply a sufficient spray volume to wet the weed foliage. Do not exceed 100 gallons of spray per treated acre. Use the lower concentration on coarse-textured soils and the higher concentration on fine-textured soils.

Note: Since it is difficult to calibrate "spot" knapsack applications, extra care must be taken not to exceed the rate equivalent of the maximum of 2/3 pound VELPAR® DF per acre.

Do not apply more than 1 1/3 pound of VELPAR® DF per acre per crop season.

TEXAS

Apply 2/3 - 2 1/3 pound of VELPAR® DF per acre. On plant cane, apply the herbicide before the cane emerges or as a directed layby treatment. On stubble cane, apply VELPAR® DF preemergence to early postemergence (up to the 3-leaf stage) or as a directed layby treatment. A pre- or early postemergence treatment may be followed by a layby treatment, provided at least 60 days have elapsed and 3 inches of rainfall or sprinkler irrigation have occurred since the first treatment.

Do not apply more than 2 1/3 pound of VELPAR® DF per acre per season.

Use the following rates according to the different soil textures:

	VELPAR® DF (Lb/Acre)			
Soils	Preemergence	+	Layby	
Coarse Texture*				
Sandy loam	1/3		_1/3	
Medium Texture				
Loam, silt loam	9/10		9/10	
Fine Texture				
Clay loam	1 1/3		1 1/3	

^{*} With at least 2% organic matter

On dormant cane, a surfactant may be added to the spray mixture to increase control of emerged weeds.

WEEDS CONTROLLED

VELPAR® DF is labeled for the control or suppression of the following species in sugarcane crops:

Ageratum, tropic* Ageratum conycoides Alexandergrass Brachiaria plantaginea Balsamapple Momordica charantia Barnyardgrass Echinochloa crus-galli Bermudagrass* Cynodon dactylon Burnweed, American (fireweed) Erechtites hieracifolius Chickweed, common Stellaria media Crabgrass, large Digitaria sanguinalis Crabgrass, smooth Digitaria ischaemum Crotalaria, fuzzy Crotalaria incana Crotalaria, showy Crotalaria spectabilis Cuphea, tarweed Cuphea carthagenensis Dallisgrass Paspalum dilatatum Fingergrass, radiate Chloris radiata Fingergrass, swollen Chloris barbata Foxtail, bristly Setaria verticillata Foxtail, yellow Setaria lutescens Geranium, Carolina Geranium carolinianum Goosegrass Elusine indica Guineagrass Panicum maximum Henbit Lamium amplexicaule Itchgrass* Rottboellia cochinchinensis Job's-tears Coix lacryma Johnsongrass (seedling) Sorghum halepense Junglerice Echinochloa colonum Lambsquarters, common Chenopodium album Millet, Texas Panicum texanum Morningglory, hairy Ipomoea pentaphylla Morningglory, threelobe Ipomoea triloba Mustard, wild Sinapis arvensis Oxalis Oxalis spp Paintbrush, Flora's Emilia sonchifolia Panicum, browntop Panicum fasciculatum Paspalum, ricegrass Paspalum orbiculare Paspalum, sour Paspalum conjugatum Pigweed, redroot Amaranthus retroflexus Pigweed, slender (green) Amaranthus viridus Pigweed, smooth Amaranthus chlorostachys Popolo Solanum sandwicense Purslane, common Portulaca oleracea Sandbur Cenchrus spp Sensitive plant (hila hila) Mimosa spp Signalgrass, broadleaf Brachiaria platyphylla Sowthistle, common Sonchus oleraceus Spanishneedles Bidens bipinnata Sprangletop Leptochloa spp Spurge, prostrate Euphorbia humistrata Spurge, graceful Chamaesyce hypericifolia Helianthus spp Paspalum urvillei Vaseygrass Waltheria (hia loa) Waltheria spp

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^{*} Suppression – a visible reduction in plant population and/or plant vigor as compared to an untreated area and generally not accepted as control.

USE PRECAUTIONS AND RESTRICTIONS - SUGARCANE

- Do not plant any crop other than sugarcane following an application of DuPont™ VELPAR® DF.
- Do not feed sugarcane forage to livestock.
- Do not apply VELPAR® DF:
- Within 180 days of harvest in Hawaii.
- Within 234 days of harvest in Louisiana.
- Within 288 days of harvest in Puerto Rico.
- Within 234 days of harvest in Texas.
- To avoid injury to sugarcane, observe the following precautions:
- Do not use VELPAR® DF on cane that shows poor vigor because of insect damage, disease, or winter injury, or shows symptoms of other stress conditions such as drought stress.
- Do not add a surfactant in applications unless otherwise specified.
- Do not use VELPAR® DF on gravelly or rocky soils, thinly covered subsoils, or coarse-textured soils (sands to sandy loams) with less than 1% organic matter.
- Temporary chlorosis of the crop may result from application over emerged cane. Applications during active cane growth must be directed to cover the weeds and soil while minimizing crop contact.
- Do not use VELPAR® DF on varieties known to be susceptible to herbicides.
- Extremely heavy rainfall after application may result in poor weed control and/or crop injury, especially if the application is made to dry soil.

FORESTRY

SITE PREPARATION

VELPAR® DF is labeled for weed and brush control in areas where the following species are grown:

EASTERN US AND LAKE STATES

Fir, balsam Pine, Austrian Pine, loblolly Pine, longleaf Pine, ponderosa Pine, red Pine, Scotch Pine, shortleaf Pine, slash Pine, Virginia Spruce, black Spruce, red Spruce, white	Pinus negra Pinus taeda Pinus taeda Pinus palustris Pinus ponderosa Pinus sylvestris Pinus echinata Pinus elliottii Pinus virginiana Picea mariana Picea rubens Picea glauca
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WESTERN US

Fir, Douglas
Fir, grand
Fir, Noble
Fir, white
Pine, Jeffrey
Pine, lodgepole
Pine, ponderosa
Spruce, blue
Spruce, Engleman
Spruce, Sitka

Pseudotsuga menziesii Abies grandis Abies procera Abies concolor Pinus jeffreyi Pinus contorta Pinus ponderosa Picea pungens Picea englemannii Picea sitchensis

APPLICATION INFORMATION

EASTERN US

Apply VELPAR® DF from early spring to early summer after hardwoods have broken bud and before the foliage has hardened off.

	VELPAR® DF (Lb/Acre)	
Soils	Eastern US	
Coarse Texture		
Sand, loamy sand, sandy loam	2 2/3 - 4	
Medium Texture		
Loam, silt loam, sandy clay loam	4 - 5 1/3	
Fine Texture		
Silty clay loam, clay loam, sandy clay, silt, silty clay, clay	5 1/3 - 6 2/3	

The rates listed are for broadcast application. Use the lower rates on coarse textured soils and soils low in organic matter. Use the higher rates on fine textured soils and soils high in organic matter. Use the higher rates where weeds identified with an * in the Weeds Controlled list predominate.

WESTERN US

For SITE PREPARATION, VELPAR® DF may be applied at 1.3 to 4 pounds per acre. Use the lower rates on coarse textured soils and soils low in organic matter. Use the higher rates on fine textured soils and soils high in organic matter. Use the higher rates where weeds identified in this label as "suppression" predominate.

In areas where other conifer species may be mixed in with the conifers listed above, VELPAR® DF may be applied if the user has prior experience with VELPAR® DF on the other conifer species. With no prior experience, it is advised that either a small area of plantings be tested for conifer safety prior to treating larger areas, or make no application of VELPAR® DF in these areas within the site preparation area. Conifer species that are sensitive to VELPAR® (hexazinone) DF, such as, sugar pine and western larch, require 18 months before interplanting on treated sites.

Applications made to shelter wood sites may also result in mortality to over-story conifers. Factors that may influence conifer sensitivity in these sites could include application rate, conifer species, soil characteristics, uniformity of spray distribution across the treatment swath and environmental stress.

Rain Belt (areas of high spring rainfall): For best results, apply in late winter or spring when weeds and brush are actively growing.

Snow Belt (areas of low spring rainfall): For best results, apply in the fall before soil freezes, or in the spring after snow cover melts in anticipation of rainfall. Weed and brush control results from spring applications will be dependent on sufficient rainfall following application to activate VELPAR® DF.

PLANTS CONTROLLED

DuPont[™] VELPAR® DF is labeled for the control or suppression of the following species in site preparations for forestry crops:

HERBACEOUS PLANTS

Asters
Aster, heath*
Barnyardgrass
Bentgrass
Bluegrass, annual
Bromegrass
Carrot, wild
Crabgrass*
Daisy, oxeye
Dandelion, common*
Dandelion, false*
(spotted catsear)

Dandelion, false*
(spotted catsear)
Dock, curly*
Elksedge
Fescue*
Fireweed*(willowwe

Fireweed*(willowweed)
Fleabane
Foxtail
Goldenrod*
Groundsel, common
Horseweed/marestail
Mullein, common**
Orchardgrass *
Pinegrass
Quackgrass*
Ragweed, common
Ryegrass, Italian (annual)

Ryegrass, perennial* Smartweed, Pennsylvania Squawcarpet Thistle, Canada* Velvetgrass, common Aster ericoides Echinochloa crus-galli

Agrostis spp
Poa annua
Bromus spp
Daucus carota
Digitaria spp
Chrysonthemum

Chrysanthemum leucanthemum Taraxacum officinale

Hypochaeris radicata Rumex crispus Carex geyeri Festuca spp

Epilobium angustifolium Conyza spp

Solidago spp
Solidago spp
Senecio vulgaris
Conyza canadensis
Verbascum thapsus
Dactylis glomerata
Calamagrostis rubescens
Agropyron repens
Ambrosia elatior
Lolium multiflorum

Polygonum pensylvanicum Ceanothus prostratus Cirsium arvense Holcus lanatus

Lolium perenne

** For western US site preparation, apply at 4 pounds per acre.

WOODY PLANTS

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Ash Fraxinus spp Aspen, big tooth Populus grandidentata Aspen, trembling Populus tremuloides Birch Betula spp Blackgum Nyssa sylvatica Cherry, black Prunus serotina Deerbrush Ceanothus integerrimus Dogwood, flowering* Cornus florida Elm Ulmus spp Hawthorn Crataegus spp Hazel Corylus spp Hickory Carya spp Honevsuckle* Lonicera spi Manzanita, Greenleaf Arctostaphylos patula Maple, red* Acer rubrum Oaks Quercus spp Poplar, balsam Populus balsamifera Snowbrush (varnishleaf) Ceanothus velutinus Sourwood* Oxydendrum arboretum Sweetgum Liquidambar spp Willows Salix spp

* Suppression is a visible reduction in plant competition (reduced population and/or vigor) as compared to an untreated area. Degree of suppression will vary with rate applied, size of plants at application and environmental conditions following treatment. Species indicated above, especially resprouts of these species, may require a follow up treatment for acceptable control. Burning, as a follow up treatment, will enhance control of resprouts.

Within several weeks after VELPAR® DF activation by rainfall, affected vegetation may be burned, if desired. This

burn may further enhance control of vegetation. Burn the vegetation only after any residual stand is completely defoliated, at least twice, allowing for sufficient root uptake of VELPAR® DF. In the West, results may take one to two years in areas of low rainfall.

SPRAY EQUIPMENT

When applied as a liquid spray using water as the carrier, VELPAR® DF may be applied by ground equipment or by air (helicopter only).

For ground application, use enough water for thorough coverage, usually a minimum of 25 gallons per acre. For aerial applications, use at least 5 gallons of water per acre.

GRID APPLICATION

Mix 2 2/3 pounds of VELPAR® DF with sufficient water to make one gallon of suspension and thoroughly agitate. Intermittent agitation may be required to maintain the VELPAR® DF in suspension.

Apply the VELPAR® DF suspension directly to the soil surface in a grid pattern using an exact delivery handgun applicator. This equipment delivers a thin stream of predetermined volume. VELPAR® DF must be applied during the period from hardwood bud break to early summer.

Application rate and grid pattern will depend on soil texture and woody plant composition. Use the lower rates on coarse textured soils and when the major component of the hardwoods are susceptible species. Use the high rates on fine-textured soils and where weeds identified in this label as "partial control or suppression" predominate.

Application Patterns and Rates For VELPAR® DF Suspension

	ML/Spot	Grid (Ft)	Lb/Acre
Coarse	0.6	3 X 3	2
	2.0	4 X 4	4
	3.1	4 X 6	4
Medium/Fine	1.6	3 X 3	5.3
	2.8	4 X 4	5.3
	3.5	4 X 4	6.6
	5.2	4 X 6	6.6

BASAL (SOIL) SINGLE STEM TREATMENTS

Mix 2 2/3 pounds of VELPAR® DF with sufficient water to make one gallon of suspension and thoroughly agitate. Apply the VELPAR® DF suspension with an exact-delivery handgun applicator. This equipment delivers a thin stream of predetermined volume when triggered. Apply the VELPAR® DF suspension at the rate of 2 to 4 ml for each inch of stem diameter at breast height. Direct the treatment to the soil within 3 feet of the root collar of woody plants to be controlled.

For multi-stemmed and low-growing brush that have stem diameters that are difficult to determine, apply the VELPAR® DF suspension at the rate of 2 to 4 ml per 3 feet of canopy width. For tall, slender (columnar) brush types, apply 4 to 8 ml per 3 feet of height. Base the rate on

whichever canopy dimension is greater (width or height). Apply the lower volumes for coarse textured soils or soils with low organic matter soils and the higher volumes for fine textured soils or soils with high organic matter.

When treating brush that requires more than a single delivery of the DuPontTM VELPAR® DF suspension, apply subsequent deliveries equally spaced around the target plant. If treating brush on sloping sites, apply most of the suspension on the uphill side of the stem. If treating resprouts from brush disturbed by cutting or other mechanical methods, the rate of application must be proportional to the original tree size, not just the size of sprout regrowth.

USE PRECAUTIONS AND RESTRICTIONS SITE PREPARATION

- Where burning is desired, burn the vegetation only after any residual brush has completely defoliated, at least twice, allowing for sufficient root uptake of VELPAR® DF.
- Following harvest, allow sufficient time for stumps and injured trees to adequately resprout before applying VELPAR® DF.

FORESTRY - RELEASE

VELPAR® DF is labeled for conifer release where the following species are grown:

EASTERN US AND LAKE STATES

Fir, balsam	Abies balsamea
Pine, loblolly	Pinus taeda
Pine, longleaf	Pinus palustris
Pine, red	Pinus resinosa
Pine, shortleaf	Pinus echinata
Pine, slash	Pinus elliotti
Pine, Virginia	Pinus virginiana
Spruce, black	Picea mariana
Spruce, Norway	Picea abies
Spruce, red	Picea rubens
Spruce, white	Picea glauca

WESTERN US

Fir, Douglas	Pseudotsuga menziesii
Fir, grand	Abies grandis
Fir, Noble	Abies procera
Fir, white	Abies concolor
Hemlock, Western	Tsuga heterophylla
Pine, Jeffrey	Pinus jeffreyi
Pine, lodgepole	Pinus contorta
Pine, ponderosa	Pinus ponderosa
Spruce, blue	Picea pungens
Spruce, Englemann	Picea englemannii
Spruce, Sitka	Picea sitchensis

APPLICATION INFORMATION

EASTERN US

Apply VELPAR® DF from early spring to early summer after hardwoods have broken bud and before full leaf expansion.

Applications made over the top of pines may result in excessive pine injury under conditions of high humidity and temperature (80 degrees F).

WESTERN US

Rainbelt (areas of high spring rainfall): For best results, apply in late winter or spring when brush is actively growing, but prior to conifer budbreak. Dormant trees are less susceptible to injury. Applications where the spray comes into direct contact with conifers after dormancy break in the spring or before the final resting bud has hardened in the fall may severely injure or kill the trees.

Snowbelt (areas of low spring rainfall): For best results, apply in the fall before soil freezes and after the final resting bud has hardened on the conifers. Or, spring applications may be made after snow cover melts in anticipation of rainfall prior to conifer budbreak. Brush control results from spring treatments will be dependent on sufficient rainfall following application to activate VELPAR® DF.

USE RATES

The rates listed below are for broadcast application. Do not use more than one application of VELPAR® DF per year. Use the higher rate range for the harder to control* (suppression) species in the PLANTS CONTROLLED listings of the Site Prep and Release sections.

EASTERN US

a a .	ann	VELPAR® DF (Lb/Acre)
Crop Species	Soil Description	Established Trees
Loblolly pine Longleaf pine	Loamy sand, sandy loam	1 1/3 - 2
Shortleaf pine	Loam, silt loam,	
Virginia pine	silt, sandy clay loam	1 1/3 - 2 2/3
Slash pine	Silty clay loam, clay loam, sandy clay,	
	silty clay, clay	3 - 4
Red pine	Loamy sand, sandy loa	ım 1 1/3 - 2 2/3
	Loam, silt loam, silt, sandy clay loam	2 2/3 - 4
	Silty clay loam, clay lo sandy clay, silty clay, c	

Established Trees

- 4 years of age from transplanting on coarse-textured soils
- 3 years of age from transplanting on medium-textured soils
- 2 years of age from transplanting for Red Pine

WESTERN US

Application rates by soil type for VELPAR® DF in the following western conifers: Blue spruce, Douglas fir, Engleman spruce, Grand fir, Jeffrey pine, Lodgepole pine, Noble fir, Ponderosa pine, Sitka spruce, Western hemlock and White fir.

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DuPont™ VELPAR® DF Soil Description (Lb/Acre)

Loamy sand, sandy loam	1 1/3 - 3	
Loam,		
silt loam, sandy clay loam	2 2/3 - 4	
Silt, silty clay loam,		
clay loam, sandy clay, silty clay,		
clay	3 - 4	

For first year plantings utilizing bare root stock, treat only transplant stock that is 2 years old (2-0, 1-1) or more, except (1-0) for Ponderosa and Jeffrey pines. Apply VELPAR® DF only if rainfall has settled the soil around the base and root systems of the transplants.

BRUSH CONTROLLED

VELPAR® DF is labeled for the control or suppression of the following species in conifer release sites:

Ash	Fraxinus spp
Aspen, big tooth	Populus grandidentata
Aspen, trembling	Populus tremuloides
Birch	Betula spp
Elder, box	Acer negundo
Brambles	Rubus spp
Cherry, black	Prunus serotina
Cherry, pin	Prunus pensylvanica
Deerbrush	Ceanothus integerrimus
Dogwood, flowering*	Cornus florida
Elm	Ulmus spp
Hawthorn	Crataegus spp
Hazel	Corylus spp
Honeysuckle*	Lonicera spp
Manzanita, Greenleaf	Arctostapĥŷlos patula
Maple, red*	Acer rubrum
Oaks	Quercus spp
Poplar, balsam	Populus balsamifera
Snowbrush (varnishleaf)	Ceanothus velutinus
Sourwood*	Oxydendrum arboretum
Sweetgum	Liquidambar spp
Willows	Salix spp

^{*} Suppression – a visible reduction in plant population and/or plant vigor as compared to an untreated area and generally not accepted as control.

In addition to brush controlled, herbaceous species listed in Weeds Controlled section of Release-Herbaceous Weed Control may be controlled with these applications.

SPRAY EQUIPMENT

When applied as a liquid spray using water as the carrier, VELPAR® DF may be applied by ground equipment or by air (helicopter only).

For ground applications, use sufficient spray volume for thorough and uniform coverage of the site to be treated, usually a minimum of 25 gallons per acre. For aerial applications, use a minimum of 5 gallons per acre.

GRID APPLICATION

Mix 2 2/3 pounds of VELPAR® DF with sufficient water to make one gallon of suspension and thoroughly agitate. Intermittent agitation may be required to maintain the VELPAR® DF in suspension.

Apply the VELPAR® DF suspension directly to the soil surface in a grid pattern using an exact delivery handgun applicator. This equipment delivers a thin stream of predetermined volume. VELPAR® DF must be applied during the period from hardwood bud break to early summer.

Application rate and grid pattern will depend on soil texture and woody plant composition. Use the lower rates on coarse textured soils and when the major component of the hardwoods are susceptible species. Use the high rates on fine-textured soils and where weeds identified in the label as "partial control or suppression" predominate.

Application Patterns and Rates For VELPAR® DF Suspension

	ML/Spot	Grid (Ft)_	Lb/Acre
Coarse	0.5	3 X 4	1.3*
	1.2	3 X 6	2
	2.1	4 X 6	2.6
Medium/Fine	1.2	3 X 3	4
	2.3	3 X 6	4
	1.6	3 X 3	5.3
	3.1	3 X 6	5.3

^{*} Use on deep sands with pines four years or more of age.

BASAL (SOIL) SINGLE STEM TREATMENT

Mix 2 2/3 pounds of VELPAR® DF with sufficient water to make one gallon of suspension and thoroughly agitate. Apply the VELPAR® DF suspension with an exact-delivery handgun applicator. This equipment delivers a thin stream of predetermined volume when triggered. Apply the VELPAR® DF suspension at the rate of 2 to 4 ml for each inch of stem diameter at breast height. Direct the treatment to the soil within 3 feet of the root collar of woody plants to be controlled.

For multi-stemmed and low-growing brush that have stem diameters that are difficult to determine, apply the VELPAR® DF suspension at the rate of 2 to 4 ml per 3 feet of canopy width. For tall, slender (columnar) brush types, apply 4 to 8 ml per 3 feet of height. Base the rate on whichever canopy dimension is greater (width or height). Apply the lower volumes for coarse textured soils or low organic matter soils and the higher volumes for fine textured soils or high organic matter soils

When treating brush that requires more than a single delivery of the VELPAR® DF suspension, apply subsequent deliveries equally spaced around the target plant. If treating brush on sloping sites, apply most of the suspension on the uphill side of the stem. If treating resprouts from brush disturbed by cutting or other mechanical methods, the rate of application must be proportional to the original tree size, not just the size of sprout regrowth.

USE PRECAUTIONS AND RESTRICTIONS RELEASE - GRID & SINGLE STEM

- Application of DuPontTM VELPAR® DF basal soil spot treatments closer than 36 inches to conifer seedlings in their first season or directly up slope from these seedlings may result in injury or mortality.
- Use VELPAR® DF on seedlings in their first or fourth year and older. Injury may result from use on two and three year old seedlings where root growth is extensive but hardiness is lacking.

RELEASE HERBACEOUS WEED CONTROL

VELPAR® DF is labeled for controlling herbaceous weeds where these pine species are grown:

EASTERN US

Loblolly pine	Slash pine
Longleaf pine	Red pine

WESTERN US

Blue spruce	Noble fir
Douglas fir	Ponderosa pine
Engleman spruce	Sitka spruce
Grand fir	Western hemlock
Jeffrey pine	White fir
Lodgepole pine	

APPLICATION INFORMATION

EASTERN US

Apply VELPAR® DF as a broadcast or banded spray in the spring prior to conifer bud break to lessen conifer injury potential.

WESTERN US

Rainbelt (areas of high spring rainfall): For best results, apply as a broadcast or banded spray in the late winter or spring when weeds are actively growing, but prior to conifer budbreak. If application is made after conifer bud break, use directional spray equipment to prevent contact with conifer foliage, as injury may result.

Snowbelt (areas of low spring rainfall): For best results, apply as a broadcast or banded spray in the fall before soil freezes and after the final resting bud has hardened on the conifers. Or, spring applications may be made after snow cover melts in anticipation of rainfall prior to conifer budbreak. Weed control results from spring treatments will be dependent on sufficient rainfall following application to activate VELPAR® DF.

USE RATES

The rates listed below are for broadcast application. For band application, use proportionately less. For example, use 1/2 of the broadcast rates when treating a 3-foot band where row spacing is 6 feet. Use the higher rate range for the harder to control (*Suppression) weeds listed in the table below.

EASTERN US

	VELPAR® D First Year	F (Lb/Acre) Established
Soil Description	Plantings	Trees
Loamy sand, sandy loam(50-85% sand)	1 1/3	1 1/3 - 1 2/3
Loam, silt loam, silt, sandy clay loam	1 1/3 - 1 1/2	1 2/3 - 2 1/3
Silty clay loam, clay loam, sandy clay, silty clay, clay	1 1/2 - 1 8/10	2 1/3 - 2 2/3

Red pine only - Refer to labeled rates in the FORESTRY RELEASE - Use Rates Eastern US section of the label.

WESTERN US

Refer to labeled rates in the FORESTRY RELEASE - Use Rates Western US section of the label.

WEEDS CONTROLLED

VELPAR® DF is labeled for the control or suppression of the following species in release sites:

Asters	A star ann
	Aster spp Aster ericoides
Aster, heath*	
Barnyardgrass	Echinochloa crus-galli
Bentgrass	Agrostis spp
Bluegrass, annual	Poa annua
Brackenfern	Pteridium aquilinum
Bromegrass	Bromus spp
Carrot, wild	Daucus carota
Crabgrass*	Digitaria spp
Daisy, oxeye	Chrysanthemum leucanthemum
Dandelion, common*	Taraxacum officinale
Dandelion, false*	
(spotted catsear)	Hypochaeris radicata
Dock, curly*	Rumex crispus
Fescue*	Festuca spp
Fireweed*(willowweed)	Epilobium angustifolium
Fleabane	Conyza spp
Foxtail	Setaria spp
Goldenrod*	Solidago spp
Groundsel, common	Senecio vulgaris
Horseweed/marestail	Conyza canadensis
Orchardgrass *	Dactylis glomerata
Panicums	Panicum spp
Pinegrass	Calamagrostis rubescens
Ragweed, common	Ambrosia elatior
Ryegrass, Italian (annual)	Lolium multiflorum
Ryegrass, perennial*	Lolium perenne
Smartweed, Pennsylvania	Polygonum pensylvanicum
Squawcarpet	Ceanothus prostratus
Velvetgrass, common	Holcus lanatus
verveigrass, common	moreus iunuius

^{*} Suppression – a visible reduction in plant population and/or plant vigor as compared to an untreated area and generally not accepted as control.

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FORESTRY IMPREGNATION ON DRY BULK FERTILIZER

DuPontTM VELPAR® DF is labeled for impregnating or coating dry bulk fertilizer to be applied on forested sites for the establishment or release of conifer plantations (except longleaf pine) as specified on this label.

PLANTS CONTROLLED

Fertilizer impregnated with VELPAR® DF is labeled for the control and suppression of the weeds and brush identified for the specific applications on this label. Consult the appropriate segment of this label to determine the appropriate rate of VELPAR® DF to be applied per acre. Apply this amount of VELPAR® DF to the volume of fertilizer to be applied per acre.

IMPREGNATION EQUIPMENT

To impregnate or coat the fertilizer use a system consisting of conveyor or closed drum used to blend dry bulk fertilizer.

IMPREGNATION INSTRUCTIONS

To impregnate dry bulk fertilizer with VELPAR® DF, mix the amount as prescribed above in a sufficient quantity of water to uniformly coat the desired amount of fertilizer. Suspensions of VELPAR® DF will require thorough agitation.

Direct the spray nozzles of the impregnation equipment to deliver a fine spray of the mixture toward the fertilizer for thorough coverage while avoiding contact with mixing equipment. The use of a spray pattern indicator may be beneficial to visually determine the uniformity of impregnation.

Uniform impregnation of dry bulk fertilizer may vary. If absorption of the spray is not adequate, the use of an absorptive powder or additive, such as "Microcel E" or "HiSil 233", may be required to produce a dry, free flowing mixture.

Apply the fertilizer as soon as possible after impregnation for optimum performance. Impregnated fertilizer may become lumpy and difficult to apply following storage.

Diammonium phosphate, potassium chloride, 16-16-16 and 24-4-4 have been successfully impregnated.

APPLICATION EQUIPMENT

Applications of impregnated fertilizer may be made by ground equipment or by air (helicopter or fixed wing). Accurate calibration and patterning of the equipment is essential for uniform distribution of the impregnated fertilizer on the soil surface.

USE PRECAUTIONS AND RESTRICTIONS FORESTRY - IMPREGNATED FERTILIZER

If fertilizer materials are excessively dusty, use a suitable
additive to reduce dust prior to impregnation. Application
of dusty fertilizer which has been impregnated may result
in off-target drift and injury to desirable vegetation. Such
drift and associated injury may be aggravated by high
wind conditions.

- The dry fertilizer must be properly impregnated and uniformly applied to avoid pine injury/mortality and poor weed and brush control.
- Uniform and precise application of the impregnated fertilizer is essential for satisfactory weed and brush control and to minimize pine injury. Overlaps or skips between adjoining swaths or non-uniform distribution of impregnated fertilizer within the swath will deliver poor results and may result in pine injury or mortality.
- Do not impregnate potassium nitrate, sodium nitrate or triple super phosphate fertilizers with VELPAR® DF as herbicidal action will be lost.

USE PRECAUTIONS AND RESTRICTIONS FORESTRY

- Do not use VELPAR® DF in nurseries, seedbeds, or ornamental plantings.
- On tracts of land where various soil types are present and VELPAR® DF rate selection is difficult, conifer damage or less-than-expected vegetation suppression may occur due to the different rates required for various soil types.
- Poor weed and brush control may result from the following:
 - -Heavy duff or slash present at time of application
 - -Use on poorly drained sites
 - Applications made when the soil is saturated with water and rain is imminent within 24 hours
 - -Applications to soils high in organic matter (greater than 5%)
- Following harvest, allow stumps and injured trees sufficient time to adequately resprout before applying VELPAR® DF.
- Where burning is desired, burn vegetation after any brush has completely defoliated, at least twice, allowing for sufficient root uptake of VELPAR® DF.
- Do not use VELPAR® DF on frozen soils; use in spring after snow melt.
- Do not add a surfactant in applications over the top of conifers.
- Weed control results from spring applications depend on sufficient moisture to activate VELPAR® DF.
- When applying VELPAR® DF after transplanting, wait until rainfall has settled the soil around the base and root systems of the transplants before making the treatment.
- Crop injury may occur when VELPAR® DF is used:
 - -On trees that show poor vigor, insect damage, disease, winter injury, or other stress conditions
 - -On any soil containing less than 1% organic matter
- -On loamy sand or sandy loam with less than 2% organic matter, except Jeffrey pine and Ponderosa pine
- -On conifer foliage after conifer bud break
- -On gravelly or rocky soils, exposed subsoils, clay knobs, sand, or sandy soil with 85% or more sand.

- Livestock may be grazed immediately following a broadcast application of DuPontTM VELPAR® DF at rates of 1.5 pounds per acre or less, and treated vegetation may be cut, dried, and fed after 38 days.
- Do not cut treated vegetation for feed, or graze livestock on treated areas for 60 days following application of VELPAR® DF at broadcast rates exceeding 1.5 pounds per acre.

YELLOW POPLAR PLANTINGS

VELPAR® DF is labeled for the control of herbaceous weeds in the establishment of yellow poplar plantations. Applications may be made over the top of planted seedlings after the soil has settled around the root systems but before the seedlings have broken dormancy (bud break). A subsequent application may be made before dormancy break in the Spring of the second year. USE RATES: Use the rate range specified in the "RELEASE- HERBACEOUS WEED CONTROL" section for pine plantations - eastern US.

For ground application, use sufficient spray volume for uniform and thorough coverage of the site to be sprayed, usually a minimum of 25 gallons per acre. For aerial applications, use a minimum of 5 gallons of water per acre. For broader spectrum control VELPAR® DF may be tank mixed with DuPontTM ESCORT® XP herbicide. Add ESCORT® XP at a rate of 1/2 ounce per acre with the prescribed rate of VELPAR® DF.

USE PRECAUTIONS AND RESTRICTIONS YELLOW POPLAR PLANTINGS

- Applications of VELPAR® DF and tank mixes of VELPAR® DF and DuPontTM ESCORT® XP made to yellow poplar seedlings that are suffering from loss of vigor caused by insects, disease, drought, winter damage, animal damage, excessive soil moisture, planting shock or other stresses may injure or kill the seedlings.
- Applications of VELPAR® DF and tank mixes of VELPAR® DF and ESCORT® XP must only be made after adequate rainfall has closed the planting slit and settled the soil around the roots following transplanting.
- The use of surfactant with VELPAR® DF is not advised for applications made over the tops of seedlings.
- Careful consideration must be given by an experienced and knowledgeable forester to ensure the specific growth requirements of yellow poplar will be provided by the selected planting site. Treatment of yellow poplar planted on a site inadequate to meet its requirements may injure or kill the seedlings.

PASTURE / RANGELAND

Part of the second

VELPAR® DF is labeled for control of brush and weeds in pasture.

BERMUDAGRASS / BAHIAGRASS

VELPAR® DF is labeled for control of smutgrass and other weeds in established stands of bermudagrass and bahiagrass.

APPLICATION INFORMATION

Make a single application of VELPAR® DF per year when weeds are actively growing.

WEEDS CONTROLLED - USE RATES

VELPAR® DF effectively controls the following weeds at the rates shown in pastures. Use a lower rate on coarse-textured soils (sand to sandy loam). Use the higher rate on fine-textured soils (clay loam to clay) and on soils high in organic matter.

9/10 - 1 1/2 Lb/Acre

Barley, little
Barnyardgrass
Dogfennel
Fescue
Lespedeza
Oxalis
Passionflower, maypop
Pepperweed, Virginia
Pigweed
Smutgrass*

Hordeum pusillum
Echinochloa crus-galli
Eupatorium capillifolium
Festuca spp
Lespedeza cuneata
Oxalis spp
Passiflora incarnate
Lepidium virginicum
Amaranthus spp
Sporobolus indicus

* Suppression may result with some of the giant (larger) smutgrass species.

Suppression – a visible reduction in plant population and/or plant vigor as compared to an untreated area and generally not accepted as control.

SPRAY EQUIPMENT

Apply VELPAR® DF uniformly over the desired area using ground equipment only.

For ground application, use enough water for thorough coverage usually a minimum of 25 gallons per acre. The use of a surfactant may increase the potential for bermudagrass or bahiagrass injury.

USE PRECAUTIONS AND RESTRICTIONS BERMUDAGRASS/BAHIAGRASS

- For bermudagrass that may be grown in the states of ID, OR,UT or WA, determine the suitability of using VELPAR® DF by treating a small area at a labeled application rate prior to treating larger areas. The smaller treated area must be observed for any signs of herbicidal injury during 60 days of normal growing conditions to determine if the treatment is safe to bermudagrass. If this evaluation is not completed prior to use, the user assumes the responsibility for any plant damage or other liability resulting from the use of VELPAR® DF on bermudagrass.
- Use VELPAR® DF only in stands of bermudagrass and bahiagrass established for at least one year. Do not treat newly sprigged or sodded areas.
- Some temporary discoloration of the bermudagrass or bahiagrass may occur after application.
- Treatment of mixed pastures containing forage species other than bermudagrass or bahiagrass may result in injury or mortality to the other forage species.
- Injury may result when desirable grasses are under stress from drought, insects, disease, cold temperature, or poor fertility.
- Injury to or loss of desirable trees or other plants may result if VELPAR® DF is applied or if equipment is drained or flushed on or near desirable trees or other

plants, on areas where their roots may extend, or in locations where the chemical may be washed or moved into contact with their roots.

- Severe crop injury may occur if applications are made on gravelly or rocky soils, thinly covered subsoils, or soils with less than 1% organic matter.
- Livestock may be grazed immediately following a broadcast application of DuPontTM VELPAR® DF at rates of 1.5 pounds per acre or less, and treated vegetation may be cut, dried, and fed after 38 days.

PASTURE/RANGELAND BRUSH CONTROL

VELPAR® DF may be used either broadcast or as a basalsoil treatment for the control of undesirable brush in pasture or rangeland.

APPLICATION INFORMATION

Apply VELPAR® DF from late winter through summer, pre-budbreak until new growth hardens off.

In areas where the soil remains frozen during the winter and spring rains are usually inadequate for soil activation, a fall or winter treatment may be applied before the soil freezes.

For broadcast rates needed to control the species below, see the Forestry - Release, Use Rates section.

BRUSH CONTROLLED

VELPAR® DF is labeled for the control or suppression of the following brush species in pasture and rangeland:

Alder Ash Aspen Birch Blackgum Bay, sweet Catclaw acacia Cedar, Eastern red Cherry, black Chinaberry* Deerbrush Dogwood, flowering* Elm, American Elm, Chinese Hackberry, common Hawthorn Hazel Hickory Huisache Juniper Locust Lotebush Manzanita, Greenleaf Maple, red Mesquite Mulberry Oaks Osage-orange Persimmon Plum, wild Poplar, balsam Poplar, yellow Prîvet Rose, multiflora Sassafras* Soapweed, small (yucca) Snowbrush (varnishleaf) Sourwood Sumac Sweetgum Tallow, Chinese Waxmyrtle Whitebrush

Willow

Alnus spp Fraxinus spp Populus spp Betula spp Nyssa sylvatica Magnolia virginiana Acacia greggii Juniperus virginiana Prunus serotina Melia azedarach Ceanothus integerrimus Cornus florida Ulmus Americana Ulmus parvifolia Celtis occidentalis Crataegus spp Corylus spp Carya spp Acacia farnesiana Juniperus spp Robinia spp Ziziphus obtusifolia Arctostaphylos patula Acer rubrúm Prosopis glandulosa Morus spp Quercus spp Maclura pomifera Diospyros spp Prunus munsoniana Populus balsamifera Liriodendron tulipifera> Ligustrum spp Rosa multiflora Sassafras albidum Yucca glauca Ceanothus velutinus Oxydendrum arboretum Rhus spp Liquidambar spp Sapium sebiferum Myrica cerifera Aloysia gratissima Salix spp

*Suppression – a visible reduction in plant population and/or plant vigor as compared to an untreated area and generally not accepted as control.

SPRAY EQUIPMENT AND APPLICATION TECHNIQUES

Basal (Soil)-Mix 2 2/3 pounds of VELPAR® DF with sufficient water to make one gallon of suspension and thoroughly agitate. Apply the VELPAR® DF suspension with an exact-delivery handgun applicator. This equipment delivers a thin stream of predetermined volume when triggered. Apply the VELPAR® DF suspension at the rate of 2 to 4 ml for each inch of stem diameter at breast height. Direct the treatment to soil within 3 inches of the root collar of woody plants to be controlled. When treating large stems and when more than one delivery of the VELPAR® DF suspension is needed per stem, make applications on opposite sides of the stem. Do not apply more than 1/3 gallon of the VELPAR® DF suspension per acre per year. Intermittent agitation may be required to maintain the VELPAR® DF in suspension.

USE PRECAUTIONS AND RESTRICTIONS PASTURE/RANGELAND

- Injury to or loss of desirable trees or other plants may result if VELPAR® DF is applied or if equipment is drained or flushed on or near desirable trees or other plants, on areas where their roots may extend, or in locations where the chemical may be washed or moved into contact with their roots.
- · Poor weed and brush control may result from the following:
 - -Use on poorly drained sites
 - Applications made when the soil is saturated with water and rain is imminent within 24 hours
 - Applications to soils high in organic matter (greater than 5%)
- Following mechanical cutting or clearing, allow stumps and injured trees sufficient time to adequately resprout before applying VELPAR® DF.
- Do not use VELPAR® DF on frozen soils.
- Leave treated soil undisturbed to reduce the potential for VELPAR® DF movement by soil erosion due to wind or water.
- Weed and brush control results depend on sufficient moisture to activate VELPAR® DF.
- When VELPAR® DF is applied as a basal soil treatment, there is no restriction on grazing by domestic animals nor on cutting surrounding vegetation for forage or hay.
- Livestock may be grazed immediately following a broadcast application of VELPAR® DF at rates of 1.5 pounds per acre or less, and treated vegetation may be cut, dried, and fed after 38 days.
- Do not cut treated vegetation for feed, or graze livestock on treated areas for 60 days following application of VELPAR® DF at broadcast rates exceeding 1.5 pounds per acre.

NON-AGRICULTURAL USES

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Use on non-crop sites including industrial turfgrasses are not within the scope of the Worker Protection Standard. When applied as a spray do not enter or allow worker entry into treated areas until sprays have dried.

APPLICATION INFORMATION

DuPontTM VELPAR® DF is labeled for general weed and brush control as follows: uncultivated nonagricultural areas (such as, airports, highway, railroad and utility right-of way, sewage disposal areas); uncultivated agricultural areas (non-crop producing, which includes: farmyards, fuel storage areas, fence rows, barrier strips); industrial sites (outdoor, such as, lumberyards, pipeline and tank farms).

NON-CROP SITES

VELPAR® DF is labeled for control of many annual, biennial, and perennial weeds in non-crop sites.

APPLICATION INFORMATION

Apply VELPAR® DF as a preemergence or postemergence spray when weeds are actively germinating or growing.

WEEDS CONTROLLED - USE RATE

VELPAR® DF effectively controls the following weeds when applied at the use rates shown in industrial sites. When applied at lower rates, VELPAR® DF provides short-term control of the weeds listed; when applied at higher rates, weed control is increased and extended.

Use lower rate on coarse-textured soils (sand to sandy loam). Use the higher rate on fine-textured soils(clay loam to clay) and on soils high in organic matter.

2 2/3 - 6 2/3 Lb/Acre

Barnyardgrass Bindweed, field* Bouncingbet* Bromegrass Buffalograss* Burdock Cocklebur Crabgrass Crown vetch Curly dock* Dandelion, common* Dandelion, false* (spotted catsear) Dogbane* Fiddleneck, tarweed Filaree Fleabane, flax-leaved Goatsbeard vine (sweet briar) Goldenrod Horseweed/marestail Lespedeza Milkweed, common* Mustard, wild Nutsedge* Oats, wild* Orchardgrass * Orchardgrass (seedling) Oxalis **Paragrass** Parsnip, wild Pigweed Purslane, common Quackgrass Ryegrass, Italian (annual) Smartweed Spurge Star thistle Trumpetcreeper*

Echinochloa crus-galli Convolvulus arvensis Saponaria officinalis Bromus spp Buchloe dactyloides Arctium spp Xanthium spp Digitaria spp Coronilla varia Rumex crispus Taraxacum officinale

Hypochaeris radicata Apocynum cannabinum Amsinckia lycopsoides Erodium spp Conyza bonariensis Aruncus sylvester Solidago spp Conyza canadensis Lespedeza cuneata Asclepias syriacea Sinapis arvensis Cyperus spp Avena fatua Dactylis glomerata Dactylis glomerata Oxalis spp Panicum purpurascens Pastinaca sativa Amaranthus spp Portulaca oleracea Agropyron repens Lolium multiflorum Polygonum spp Euphorbia spp Centaurea spp Campsis radicans

8 - 10 2/3 Lb/Acre

Aster, heath

Bahiagrass* Bermudagrass* Blackberry Bluegrass Broomsedge Camphorweed Canada thistle* Carrot, wild Chickweed Clovers Dewberry Dogfennel Fescue* Fingergrass Foxtail Guineagrass Honeysuckle Horseweed/marestail Lantana Lettuce, prickly Natalgrass (red top) Plantain Ragweed, common Smutgrass** Spanishneedles

Vaseygrass

Aster ericoides Paspalum notatum Cynodon dactylon Rubus spp Poa spp

Andropogon virginicus Heterotheca subaxillaris Cirsium arvense Daucus carota Stellaria media Trifolium spp Rubus trivialis

Eupatorium capillifolium
Festuca spp
Digitaria ciliaris
Setaria spp
Panicum maximum
Lonicera spp
Conyza canadensis
Lantana camara
Lactuca serriola
Rhynchelytrum repens
Plantago spp
Ambrosia elatior
Sporobolus indicus
Bidens bipinnata
Paspalum urvillei

- * Suppression a visible reduction in plant population and/or plant vigor as compared to an untreated area and generally not accepted as control.
- ** Suppression may result with some of the giant (larger) smutgrass species.

SPECIFIC WEED PROBLEMS

Control of Canada Thistle in Crown Vetch - DuPont™ VELPAR® DF is labeled for control of Canada thistle in established stands of crown vetch on noncrop sites. Make a single application of 1 - 1 2/3 lb of VELPAR® DF from late spring through mid-summer, when thistle is actively growing prior to flowering. Do not use a surfactant. Some discoloration of the crown vetch foliage may occur after application.

SPRAY EQUIPMENT

Apply VELPAR® DF uniformly over the desired area using ground equipment or helicopter. Do not apply more than 8 lbs per acre by air.

Use enough water for thorough coverage. For ground application this is usually a minimum of 25 gallons per acre. Higher application volumes may be needed to obtain uniform application with handgun equipment. For aerial applications (helicopter only) this is usually a minimum of 5 gallons per acre. Higher volumes of water may be needed when water temperatures are cold or the higher rates of VELPAR DF are used.

NON-CROP BRUSH CONTROL

VELPAR® DF is labeled for the control of undesirable brush in non-crop sites.

APPLICATION INFORMATION

Apply VELPAR® DF from late winter through summer, prebud break until new growth hardens off.

In areas where the soil remains frozen during the winter and spring rains are usually inadequate for soil activation, a fall or winter treatment may be applied before the soil freezes.

BROADCAST

Apply 5 1/3 to 10 2/3 lb of VELPAR® DF per acre as a coarse spray by ground equipment or 5 1/3 to 8 lb per acre by air (helicopter only). Use enough water for thorough coverage. For ground equipment, usually a minimum of 25 gallons per acre. For aerial equipment, usually a minimum of 10 gallons per acre. Higher volumes of water may be needed when water temperatures are cold or the higher rates of VELPAR® DF are used.

BASAL (SOIL) SINGLE STEM TREATMENT

Mix 2 2/3 pounds of VELPAR® DF with sufficient water to make one gallon of suspension and thoroughly agitate. Apply the VELPAR® DF suspension with an exact-delivery handgun applicator. This equipment delivers a thin stream of predetermined volume when triggered. Apply the VELPAR® DF suspension at the rate of 2 to 4 ml for each inch of stem diameter at breast height.

Direct the treatment to the soil within 3 feet of the root collar of woody plants to be controlled.

For multi-stemmed and low-growing brush that have stem diameters that are difficult to determine, apply the VELPAR® DF suspension at the rate of 2 to 4 ml per 3 feet of canopy

width. For tall, slender (columnar) brush types, apply 4 to 8 ml per 3 feet of height. Base the rate on whichever canopy dimension is greater (width or height).

When treating brush that requires more than a single delivery of the VELPAR® DF suspension, apply subsequent deliveries equally spaced around the target plant. If treating brush on sloping sites, apply most of the suspension on the uphill side of the stem. If treating resprouts from brush disturbed by cutting or other mechanical methods, the rate of application must be proportional to the original tree size, not just the size of sprout regrowth.

LACING/STREAKING - Mix VELPAR® DF with water to form a concentrated suspension. Apply 5 1/3 to 10 2/3 lbs of VELPAR® DF per acre. Adjust the application equipment to deliver a narrow or straight stream spray pattern such that the swath width on the soil surface is 6 to 12 inches wide. Direct the spray at the base of the brush. Swaths or treated bands must be 2 to 4 feet apart. Apply the lower volumes for coarse textured soils or soils with low organic matter and the higher volumes for fine textured soils or soils with high organic matter.

USE RATES

VELPAR® DF is labeled for the control or suppression of the following species in non-crop sites. Use lower rate on coarse-textured soils (sand to sandy loam). Use the higher rate on fine-textured soils(clay loam to clay) and on soils high in organic matter.

5 1/3 to 10 2/3 Lb/Acre

Alder Ash Aspen Birch Blackgum Bay, sweet Catclaw acacia Cedar, Eastern red Cherry, black Chinaberry Deerbrush Dogwood, flowering* Elm, American Elm, Chinese Hackberry, common Hawthorn Hazel Hickory Huisache Juniper Locust Lotebush Manzanita, Greenleaf Maple, red Mesquite Mulberry Oaks Osage-orange Persimmon Plum, wild Poplar, balsam Poplar, vellow Privet Rose, multiflora Sassafras* Soapweed, small (yucca) Snowbrush (varnishleaf) Sourwood Sumac Sweetgum Tallow, Chinese

Alnus spp Fraxinus spp Populus spp Betula spp Nyssa sylvatica Magnolia virginiana Acacia greggii Juniperus virginiana Prunus serotina Melia azedarach Ceanothus integerrimus Cornus florida Ulmus Ămericana Ulmus parvifolia Celtis occidentalis Crataegus spp Corylus spp Carya spp Acacia farnesiana Juniperus spp Robinia spp Ziziphus obtusifolia Arctostaphylos patula Acer rubrum Prosopis glandulosa Morus spp Quercus spp Maclura pomifera Diospyros spp Prunus munsoniana Populus balsamifera Liriodendron tulipifera Ligustrum spp Rosa multiflora Sassafras albidum Yucca glauca Ceanothus velutinus Oxydendrum arboretum Rhus spp Liquidambar spp Sapium sebiferûm Myrica cerifera Aloysia gratissima Salix spp

*Suppression -- a visible reduction in plant population and/or plant vigor as compared to an untreated area and generally not accepted as control.

INDUSTRIAL TURFGRASS

DuPont™ VELPAR® DF is labeled for selective weed control in established stands of bermudagrass and/or bahiagrass in noncrop areas.

APPLICATION TIMING

Waxmyrtle

Whitebrush

Willow

Make a single application of VELPAR® DF per year when weeds are actively growing.

WEEDS CONTROLLED - USE RATE

VELPAR® DF effectively controls the following weeds at the rates shown in industrial turf (unimproved only). Use a lower rate on coarse-textured soils (sand to sandy loam). Use the higher rate on fine-textured soils (clay loam to clay) and on soils high in organic matter.

9/10 - 1 1/2 Lb/Acre

Hordeum pusillum Barley, little Echinochloa crus-galli Barnyardgrass Dogfennel Eupatorium capillifolium Festuca spp Fescue Lespedeza Lespedeza cuneata Oxalis spp Oxalis Passionflower, maypop Passiflora incarnate Pepperweed, Virginia Lepidium virginicum Pigweed Amaranthus spp Smutgrass* Sporobolus indicus

Suppression – a visible reduction in plant population and/or plant vigor as compared to an untreated area and generally not accepted as control.

SPRAY EQUIPMENT

Apply VELPAR® DF uniformly over the desired area using ground equipment only.

For ground application, use enough water for thorough coverage usually a minimum of 25 gallons per acre. The use of a surfactant is not advised.

USE PRECAUTIONS AND RESTRICTIONS ALL NON-CROP SITES

- For bermudagrass that may be grown in the states of ID, OR, UT or WA, determine the suitability of using VELPAR® DF by treating a small area at a labeled application rate prior to treating larger areas. The smaller treated area must be observed for any signs of herbicidal injury during 60 days of normal growing conditions to determine if the treatment is safe to bermudagrass. If this evaluation is not completed prior to use, the user assumes the responsibility for any plant damage or other liability resulting from the use of VELPAR® DF on bermudagrass.
- Injury to or loss of desirable trees or other plants may result if VELPAR® DF is applied or if equipment is drained or flushed on or near desirable trees or other plants, on areas where their roots may extend, or in locations where the chemical may be washed or moved into contact with their roots.
- · Application spray drift may injure desirable plants.
- · Poor weed and brush control may result from the following:
 - -Use on poorly drained sites
 - Applications made when the soil is saturated with water and rain is imminent within 24 hours.
 - Applications to soils high in organic matter (greater than 5%).
- Following mechanical cutting or clearing, allow stumps and injured trees sufficient time to adequately resprout before applying VELPAR® DF.
- Do not use VELPAR® DF on frozen soils.
- Leave treated soil undisturbed to reduce the potential for VELPAR® DF movement by soil erosion due to wind or water.
- Do not use VELPAR® DF on lawns, driveways, tennis courts, or other residential or recreational areas.

^{*} Suppression may result with some of the giant (larger) smutgrass species.

- Weed and brush control results from spring applications depend on sufficient moisture to activate DuPontTM VELPAR® DF.
- Livestock may be grazed immediately following a broadcast application of VELPAR® DF at rates of 1.5 pounds per acre or less, and treated vegetation may be cut, dried, and fed after 38 days.
- Do not cut treated vegetation for feed, or graze livestock on treated areas for 60 days following application of VELPAR® DF at broadcast rates greater than 1.5 pounds and up to 8 pounds per acre.
- For VELPAR® DF rates above 8 pounds per acre, do not cut treated vegetation for forage or hay nor graze domestic animals for 1 year following application.
- There are no grazing or having restrictions for the directed basal-soil applications of VELPAR® DF.
- Use VELPAR® DF only in stands of bermudagrass and bahiagrass turfgrasses established for at least one year. Do not treat newly sprigged or sodded areas.
- Some discoloration of the bermudagrass or bahiagrass turfgrasses may occur after application.
- Injury may result when desirable turfgrasses are under stress from drought, insects, disease, cold temperature, or poor fertility.
- Severe turfgrass injury may occur if applications are made on gravelly or rocky soils, thinly covered subsoils, or soils with less than 1% organic matter.

ADDITIONAL INSTRUCTIONS, PRECAUTIONS, AND RESTRICTIONS FOR AGRICULTURAL AND NONAGRICULTURAL USES SPRAY TANK CLEAN OUT

Thoroughly clean all traces of VELPAR® DF from application equipment immediately after use. Flush the tank, pump, hoses, and boom with several changes of water after removing nozzle tips and screens (clean these parts separately). Dispose of the equipment wash water by applying it to a use-site listed on this label.

SPRAY DRIFT MANAGEMENT

The interaction of many equipment and weather-related factors determines the potential for spray drift. The applicator is responsible for considering all these factors when making application decisions. Avoiding spray drift is the responsibility of the applicator.

IMPORTANCE OF DROPLET SIZE

The most effective drift management strategy is to apply the largest droplets which are consistent with pest control objectives. The presence of sensitive species nearby, the environmental conditions, and pest pressure may affect how an applicator balances drift control and coverage. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly or under unfavorable environmental conditions.

And Carried

A droplet size classification system describes the range of droplet sizes produced by spray nozzles. The American Society of Agricultural and Biological Engineers (ASABE) provide a Standard that describes droplet size spectrum categories defined by a number of reference nozzles (fine, coarse, etc.). Droplet spectra resulting from the use of a specific nozzle may also be described in terms of volume mean diameter (VMD). Coarser droplet size spectra have larger VMD's and lower drift potential.

CONTROLLING DROPLET SIZE - GROUND APPLICATION

- Nozzle Type Select a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. The use of low-drift nozzles will reduce drift potential.
- Pressure The lowest spray pressures recommended for the nozzle produce the largest droplets. Higher pressure reduces droplet size and does not improve canopy penetration. When higher flow rates are needed, using a higher-capacity nozzle instead of increasing pressure results in the coarsest droplet spectrum.
- Flow Rate/Orifice Size Using the highest flow rate nozzles (largest orifice) that are consistent with pest control objectives reduces the potential for spray drift. Nozzles with higher rated flows produce coarser droplet spectra.

CONTROLLING DROPLET SIZE - AIRCRAFT

- Nozzle Type Solid stream, or other low drift nozzles produce the coarsest droplet spectra.
- Number of Nozzles Using the minimum number of nozzles with the highest flow rate that provide uniform coverage will produce a coarser droplet spectrum
- Nozzle Orientation Orienting nozzles in a manner that minimizes the effects of air shear will produce the coarsest droplet spectra. For some nozzles such as solid stream, pointing the nozzles straight back parallel to the airstream will produce a coarser droplet spectrum than other orientations.
- Pressure Selecting the pressure that produces the coarsest droplet spectrum for a particular nozzle and airspeed reduces spray drift potential. For some nozzle types such as solid streams, lower pressures can produce finer droplet spectra and increase drift potential.

BOOM LENGTH (AIRCRAFT), AND APPLICATION HEIGHT

- Boom Length (aircraft) Using shorter booms decreases drift potential. Boom lengths are expressed as a percentage of an aircraft's wingspan or a helicopter's rotor blade diameter. Shorter boom length and proper positioning can minimize drift caused by wingtip or rotor vortices.
- Application Height (aircraft) Applications made at the lowest height that are consistent with pest control objectives and the safe operation of the aircraft will reduce the potential for spray drift.
- Application Height (ground) Applications made at the lowest height consistent with pest control objectives, and that allow the applicator to keep the boom level with the application site and minimize bounce, will reduce the

exposure of spray droplets to evaporation and wind, and reduce spray drift potential.

WIND

Drift potential is lowest when applications are made in light to gentle sustained winds (2-10 mph), which are blowing in a constant direction. Many factors, including droplet size and equipment type also determine drift potential at any given wind speed. AVOID GUSTY OR WINDLESS CONDITIONS.

Local terrain can also influence wind patterns. Every applicator is expected to be familiar with local wind patterns and how they affect spray drift.

TEMPERATURE AND HUMIDITY

Setting up equipment to produce larger droplets to compensate for droplet evaporation can reduce spray drift potential. Droplet evaporation is most severe when conditions are both hot and dry.

SURFACE TEMPERATURE INVERSIONS

Drift potential is high during a surface temperature inversion. Surface inversions restrict vertical air mixing, which may cause small suspended droplets to remain close to the ground and move laterally in a concentrated cloud. Surface inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Mist or fog may indicate the presence of an inversion in humid areas. Inversions may also be identified by producing smoke and observing its behavior. Smoke that remains close to the ground, or moves laterally in a concentrated cloud under low wind conditions indicates a surface inversion. Smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

SHIELDED SPRAYERS

Shielding the boom or individual nozzles can reduce the effects of wind. However, it is the responsibility of the applicator to verify that the shields are minimizing drift potential, and not interfering with uniform deposition of the product.

AIR ASSISTED (AIR BLAST) FIELD CROP SPRAYERS

Air assisted field crop sprayers carry droplets to the target via a downward directed air stream. Some may reduce the potential for drift, but if a sprayer is unsuitable for the application and/or set up improperly, high drift potential can result. It is the responsibility of the applicator to determine that a sprayer is suitable for the intended application, that it is configured properly, and that drift potential has been minimized.

Note: Air assisted field sprayers can affect product performance by affecting spray coverage and canopy penetration. Read the specific crop use and application equipment instructions to determine if an air assisted field crop sprayer can be used.

SENSITIVE AREAS

Making applications when there is a sustained wind moving away from adjacent sensitive areas (e.g., residential areas, bodies of water, known habitat for threatened or endangered species, non-target crops) is an effective way to minimize the effect of spray drift.

DRIFT CONTROL ADDITIVES

Using product compatible drift control additives can reduce drift potential. When a drift control additive is used, read and carefully observe cautionary statements and all other information on the additive's label. If using an additive that increases viscosity, ensure that the nozzles and other application equipment will function properly with a viscous spray solution. Preferred drift control additives have been certified by the Chemical Producers and Distributors Association (CPDA).

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by stoage and disposal.

Pesticide Storage: Store product in original container only. Store in a cool, dry place.

Pesticide Disposal: Waste resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER HANDLING: Refer to the Net Contents section of this product's labeling for the applicable "Nonrefillable Container" or "Refillable Container" designation.

Nonrefillable Plastic and Metal Containers (Capacity Equal to or Less Than 50 Pounds): Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then, (a) for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning; if burned, stay out of smoke, or (b) for Metal Containers, offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Nonrefillable Plastic and Metal Containers (Capacity Greater Than 50 Pounds): Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then, (a) for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning; if burned, stay out of smoke, or (b) for Metal Containers, offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Nonrefillable Plastic and Metal Containers, e.g., Intermediate Bulk Containers [IBC] (Size or Shape Too Large to be Tipped, Rolled or Turned Upside Down): Nonrefillable container. Do not reuse or refill this container. Pressure rinse as follows: Empty the remaining product contents into application equipment or a mix tank. Insert pressure rinsing nozzle in the container, and rinse at about 40 PSI for at least 30 seconds. Drain rinsate for 10 seconds after the flow begins to drip. Pour or pump rinsate into application equipment or rinsate collection system. Then, (a) for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning; if burned, stay out of smoke, or (b) for Metal Containers, offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Nonrefillable Paper or Plastic Bags, Fiber Sacks including Flexible Intermediate Bulk Containers (FIBC) or Fiber Drums With Liners: Nonrefillable container. Do not reuse or refill this container. Completely empty paper or plastic bag, fiber sack or drum liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application or manufacturing equipment. Then offer for recycling if available or dispose of empty paper or plastic bag, fiber sack or fiber drum and liner in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Refillable Fiber Drums With Liners: Refillable container (fiber drum only). Refilling Fiber Drum: Refill this fiber drum with DuPontTM VELPAR® DF herbicide containing hexazinone only. Do not reuse this fiber drum for any other purpose. Cleaning before refilling is the responsibility of the refiller. Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application or manufacturing equipment. Disposing of Fiber Drum and/or Liner: Do not reuse this fiber drum for any other purpose other than refilling (see preceding). Cleaning the container (liner and/or fiber drum) before final disposal is the responsibility of the person disposing of the container. Offer the liner for recycling if available or dispose of liner in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke. If drum is contaminated and cannot be reused, dispose of it in the manner required for its liner. To clean the fiber drum before final disposal, completely empty the fiber drum by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application or manufacturing equipment. Then offer the fiber drum for recycling if available or dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

All Other Refillable Containers: Refillable container. Refilling Container: Refill this container with DuPont™ VELPAR® DF herbicide containing hexazinone only. Do not reuse this container for any other purpose. Cleaning before refilling is the responsibility of the refiller. Prior to refilling, inspect carefully for damage such as cracks, punctures, abrasions, worn out threads and closure devices. Check for leaks after refilling and before transporting. Disposing of Container: Do not reuse this container for any other purpose other than refilling (see preceding). Cleaning the container before final disposal is the responsibility of the person disposing of the container. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then, (a) for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning; if burned, stay out of smoke, or (b) for Metal Containers, offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Outer Pouches of Water Soluble Packets (WSP): Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available or, dispose of the empty outer foil pouch in the trash as long as WSP is unbroken. If the outer pouch contacts the formulated product in any way, the pouch must be triple rinsed with clean water. Add the rinsate to the spray tank and dispose of the outer pouch as described previously.

Do not transport if this container is damaged or leaking. If the container is damaged, leaking or obsolete, or in the event of a major spill, fire or other emergency, contact DuPont at 1-800-441-3637, day or night.

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