

Mr. Richard M. Vaught  
Agricultural Products  
E.I. du Pont de Nemours & Co., Inc.  
P.O. Box 80038  
Wilmington, DE 19880-0038

JUN 30 1995

Dear Mr. Vaught:

Subject: DuPont Velpar® ULW Herbicide  
EPA Registration No. 352-450  
Application Dated June 20, 1995, Request for  
Label Revisions: Format, Reduce Maximum Use Rate  
To 8 Lbs. a.i./Acre, Precautionary Language, Non-AG  
Use Section and Incorporate Four Supplemental Labels

The proposed labeling to amend the subject pesticide product registration has been reviewed and found acceptable under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) as amended, provided that you:

- o Submit one (1) copy of the final printed label before releasing the product for shipment under the enclosed stamped label.

If this condition is not complied with, the registration will be subject to cancellation in accordance with FIFRA, Section 6(a). Your release for shipment of the product constitutes acceptance of this condition.

Sincerely yours,

Joanne I. Miller  
Product Manager (23)  
Fungicide-Herbicide Branch  
Registration Division (7505C)

Enclosure

E.Wilson:Diskette:ABC9:06-30-95

CONCURRENCES							
SYMBOL							
SURNAME							
DATE							



# Velpar® ULW

herbicide

ACCEPTED  
with COMMENTS  
in EPA Letter Dated

JUN 30 1995

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

352-450

Soluble Granules

Active Ingredient

By Weight

Hexazinone

[3-cyclohexyl-6-(dimethylamino)

-1-methyl-1,3,5-triazine-2,4(1H,3H)-dione] 75%

Inert Ingredients

25%

TOTAL

100%

EPA Reg. No. 352-450

## KEEP OUT OF REACH OF CHILDREN 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.)

### STATEMENT OF PRACTICAL TREATMENT

**IF IN EYES:** Immediately flush with plenty of water for at least 15 minutes. Call a physician if irritation persists.

**IF ON SKIN:** Wash with plenty of soap and water. Get medical attention if irritation persists.

**IF SWALLOWED:** Call a physician or poison control center. Drink 1 or 2 glasses of water and induce vomiting by touching the back of throat with finger. Do not induce vomiting in, or give anything by mouth to an unconscious person.

For medical emergencies involving this product, call toll free 1-800-441-3637.

### 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. Wash thoroughly with soap and water after handling.

PRECAUTIONARY STATEMENTS  
(continued in next column)

### PRECAUTIONARY STATEMENTS(continued) PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers must wear:

Long-sleeved shirt and long pants.

Waterproof gloves.

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, 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.

### 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 use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground-water contamination.

### GENERAL INFORMATION

DuPont VELPAR® ULW Herbicide is a special granular product that is used to control undesirable woody and herbaceous plants in reforestation and noncrop sites. It is applied dry to the soil surface in a broadcast pattern.

Velpar ULW is noncorrosive to equipment.

### ENVIRONMENTAL CONDITIONS AND BIOLOGICAL ACTIVITY

Rainfall dissolves the VELPAR ULW granules, releasing the active ingredient (hexazinone) into the root zone, where it is absorbed during periods of vigorous plant growth. On herbaceous plants, symptoms usually appear within 3 to 4 weeks after activation by moisture. Activity may be reduced when vegetation is dormant, semidormant, or under stress. On woody plants, symptoms usually appear within 4 to 8 weeks after activation by moisture. Defoliation and subsequent re-foliation may occur, but susceptible plants are killed. Results may develop slowly, and maximum effects may not be achieved until 12 to 24 months after activation.

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

- use rate
- soil texture
- pest spectrum and size at application
- environmental conditions at and following treatment

## DIRECTIONS FOR USE

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

VELPAR ULW should be used only in accordance with recommendations on this label or in separate published DuPont recommendations available through local suppliers.

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. We encourage you to consult with your state Department of Agriculture, Extension Service, or other pesticide lead agency for information regarding soil permeability, aquifer vulnerability, and best management practices for your area.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your state or tribe, consult the agency responsible for pesticide regulation.

## AGRICULTURAL 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 restriction-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval(REI) of 24 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
- Waterproof gloves
- Shoes plus socks
- Protective eyewear

## FORESTRY

VELPAR ULW is recommended for site preparation and conifer release in areas where the following crop species will be grown:

- Loblolly pine
- Slash pine
- Longleaf pine
- Virginia pine
- Shortleaf pine

## APPLICATION INFORMATION

VELPAR ULW is recommended for general brush control for site preparation and conifer release in forested areas. It may be applied using ground equipment, and, where permitted, aerial equipment. Use rates and other application information are described in the various use categories.

VELPAR ULW should be applied as a broadcast treatment only.

### APPLICATION TIMING

For best results, apply in the spring after the danger of a killing frost has passed. Weeds and brush should be actively growing at application. Weed and brush control is dependent on sufficient rainfall following treatment to activate VELPAR ULW.

### APPLICATION EQUIPMENT

VELPAR ULW can be applied using appropriately modified ground equipment or aerial equipment. A Solo® backpack equipped with a granular applicator that has been modified to handle recommended use rates is recommended (for site preparation only). For aerial application, apply the VELPAR ULW granules directly using the DuPont ULW Applicator by helicopter only for site preparation and release.

All application equipment should be adjusted to ensure that distribution across the treatment swath is uniform.

Thoroughly clean all traces of VELPAR ULW Herbicide from application equipment immediately after use. Wash equipment thoroughly with water.

### USE RATES

Velpar ULW use rates for site preparation and conifer release are shown in Tables 1 and 2, respectively. The rates are based on soil texture and weed species. Use the lower rates on coarse-textured soils and soils low in organic matter; use the higher rates on fine-textured soils and on soils high in organic matter. Use the higher rates where hard-to-kill species predominate.

TABLE 1. USE RATES FOR SITE PREPARATION

Soil Texture Description	VELPAR ULW (lb per acre)
Sand, Loamy Sand, Sandy Loam	2.5 to 4
Loam, Sandy Clay Loam, Silt Loam	4 to 5.33
Clay Loam, Sandy Clay, Silty Clay Loam, Silty Clay, Clay	5.33 to 6.33

**TABLE 2. USE RATES FOR CONIFER RELEASE**

Soil Texture Description	VELPAR ULW (lb per acre)
Sand, Loamy Sand, Sandy Loam	1 to 2
Loam, Sandy Clay Loam, Silt Loam	2 to 3
Clay Loam, Sandy Clay, Silty Clay Loam, Silty Clay, Clay	3 to 4

**PLANTS CONTROLLED—FORESTRY**

VELPAR ULW controls the following herbaceous and woody plants when applied at the rates shown in Tables 1 (site preparation) and 2 (conifer release):

**Herbaceous Plants**

Annual Bluegrass	Goldenrod*
Barnyardgrass	Heath aster*
Bentgrass	Horseweed*
Catsear (false dandelion)	Orchardgrass*
Common groundsel	Oxeye daisy
Common ragweed	Ryegrass
Curly dock*	Smartweed
Dandelion*	Velvetgrass
Fescue*	Wild carrot
Fleabane	Willowweed*(fireweed)

**Woody Plants**

American elder	Hornbeam
Ashes* (green, white)	Mulberry
Birch	Multiflora rose
Blackgum*	Red maple*
Brambles (such as blackberry, dewberry, raspberry)	Oaks (such as post, southern red, turkey, water and white)
Cherry* (black, choke)	
Dogwood* (flowering)	Russian olive
Eastern red cedar*	Sumac*
Elm	Sweetgum
Hawthorn	Wild plum
Hickory*	Willow
Honeysuckle	

\* Partial control; use the higher rates for the soil textures indicated in Table 1 or 2.

**IMPORTANT PRECAUTIONS—FORESTRY**

- Do not cut for forage or hay nor graze domestic animals on treated areas for 60 days following application.
- On tracts of land where various soil types are present and VELPAR ULW rate selection is difficult, conifer damage or less-than-expected vegetation suppression may occur due to the rate differences required for various soil types.
- Injury to or loss of desirable trees or other plants may result if VELPAR ULW
  - granules drift onto desirable plants,
  - is applied on or near desirable trees or other plants, or areas where the roots may extend,
  - if equipment washwater is drained or flushed on or near desirable trees or other plants, on areas where their roots may extend, or
  - is applied in locations where the chemical may be washed or moved into contact with roots of desirable trees or other plants.
- Following harvest, stumps and injured trees should be allowed sufficient time to adequately resprout before VELPAR ULW application.
- Where burning is desired in site preparation applications, burn only after the residual stand is completely defoliated (at least twice), allowing for sufficient root uptake of VELPAR ULW.
- Do not apply to frozen soil.
- Poor weed and brush control may result from the following:
  - use on poorly drained or marshy sites
  - applications made when the soil is saturated with water
  - applications to soils high in organic matter (greater than 5%)
  - spring applications that do not receive adequate rainfall for activation
  - uneven distribution of product across the treatment swath
- Excessive conifer injury may occur when VELPAR ULW is applied for release in the following situations:
  - on trees that show poor vigor, or damage by insects, disease, winter injury drought, 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
  - on conifers growing on gravelly or rocky soils, exposed subsoils or clay knobs, or sand or sandy soil with 85% or more sand
  - on conifer species not listed on this label
  - on southern pines outplanted less than 4 years on coarse-textured soils or less than 3 years on fine-textured soils
  - in an uneven distribution pattern of product across the treatment swath

### 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.

Noncrop, Industrial Brush Control, as described on this label, is not within the scope of the Worker Protection Standard.

#### NONCROP, INDUSTRIAL BRUSH CONTROL

VELPAR ULW is recommended for the control of undesirable woody plants in noncrop sites.

#### APPLICATION INFORMATION

VELPAR ULW is recommended for general brush control in noncrop areas such as railroads, highways, utility and pipeline rights-of-way, petroleum tank farms, storage areas, industrial plant sites, and other similar areas.

VELPAR ULW should be applied as a broadcast treatment using ground application only.

#### APPLICATION TIMING

Apply VELPAR ULW from late winter through summer, from pre-budbreak through periods of active growth, when adequate rainfall can be expected for activation. 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.

#### APPLICATION EQUIPMENT

VELPAR ULW should be applied using appropriately modified ground equipment only. A Solo® backpack equipped with a granular applicator that has been modified to handle prescribed use rates is recommended.

All application equipment should be adjusted to ensure that distribution across the treatment swath is uniform.

Thoroughly clean all traces of VELPAR ULW Herbicide from application equipment immediately after use. Wash equipment thoroughly with water.

#### USE RATES

VELPAR ULW use rates for woody plants are shown in **Plants Controlled—Noncrop**. Use the lower rates on coarse-textured soils and soils low in organic matter; use the higher rates on fine-textured soils and on soils high in organic matter.

### PLANTS CONTROLLED—NONCROP

VELPAR ULW controls the following woody plants when applied at the rates shown:

#### 5 1/3 to 10 2/3 lb per acre

Alder	Hackberry	Persimmon*
American elm	Hawthorn	Privet*
Ash*	Hazel	Red maple*
Aspen	Hickory*	Sassafras*
Balsam poplar	Huisache	Small soapweed
Black cherry	Juniper	Snowbrush
Blackgum*	Lotebush	Sourwood*
Birch	Locust	Sumac
Catclaw acacia	Manzanita	Sweet bay
Chinaberry*	Mesquite	Sweet gum
Chinese elm	Mulberry	Whitebrush
Chinese tallow*	Multiflora rose	Whitehorn
Deerbrush	Myrtle	Wild plum
Dogwood	Oaks	Willow
Eastern red cedar*	Osage orange	Yellow poplar*

\* Difficult to control

#### 3 2/3 to 5 1/3 lb per acre

Brazilian pepper

### IMPORTANT PRECAUTIONS—NONCROP

- Do not use on lawns, walks, driveways, tennis courts, or similar residential areas.
- Do not cut for forage or hay nor graze domestic animals on treated areas for 60 days following application. For rates above 8 lb per acre, do not cut for forage or hay nor graze domestic animals for 1 year.
- Injury to or loss of desirable trees or other plants may result if VELPAR ULW
  - granules drift onto desirable plants,
  - is applied on or near desirable trees or other plants or areas where the roots may extend,
  - if equipment washwater is drained or flushed on or near desirable trees or other plants, or areas where their roots may extend, or
  - is applied in locations where the chemical may be washed or moved into contact with roots of desirable trees or other plants.
- Following mechanical cutting or clearing, stumps and injured trees should be allowed sufficient time to adequately resprout before VELPAR ULW application.

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- Poor brush control may result from the following:
  - use on poorly drained or marshy sites
  - applications made when the soil is saturated with water
  - applications to soils high in organic matter (greater than 5%)
  - applications that do not receive adequate rainfall for activation
  - uneven distribution of product across the treatment swath
  - treatment of target plants that are under stress
- Do not use on frozen soils.
- Do not use on soil with 85% or more sand and less than 1% organic matter.

### STORAGE AND DISPOSAL

**STORAGE:** Store product in original container only. Do not contaminate water, other pesticides, fertilizer, food or feed in storage.

**PRODUCT DISPOSAL:** Do not contaminate water, food or feed by disposal. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

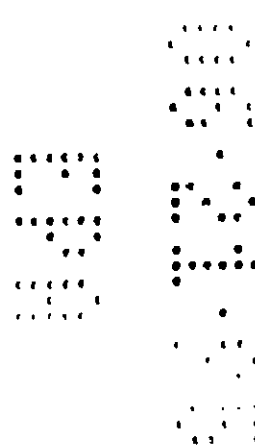
**CONTAINER DISPOSAL:** Triple rinse (or equivalent) the container. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**NOTICE TO BUYER:** Purchase of this material does not confer any rights under patents of countries outside of the United States.

### NOTICE OF WARRANTY

DuPont warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for purposes stated on such label only when used in accordance with directions under normal use conditions. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of DuPont. In no case shall DuPont be liable for consequential, special or indirect damages resulting from the use or handling of this product. All such risks shall be assumed by the buyer. DUPONT MAKES NO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

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