



352-450

05/17/2001

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

Ms. Nancy B. Lomax
U.S. Product Regulatory Manager
DuPont Crop Protection
E.I. duPont de Nemours
Stine-Haskell Research Center
Newark, DE 19714

MAY 17 2001

Dear Ms. Lomax:

Subject: DuPont[®] Velpar[®] ULW Herbicide
EPA Registration No. 352-450
Application and Letter Dated April 24, 2001
Request To Amend Registration To Revise: First Aid
Statements To Comply PR Notice 2001-1, Container
Disposal Statements, wording for "waterproof gloves"
and to Clarify the Non-Crop Use Sites to include
"natural areas"

The proposed labeling amendments to the registration of your pesticide product "DuPont Velpar ULW Herbicide" have been reviewed and found to be acceptable under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, provided that you:

1. Delete the claim for "natural areas" and clarify the sites of use limited to those listed under Appendix A to Part 158 (Data Requirements for Registration: Use Pattern Index") of the Code of Federal Regulations, Vol. 40, Parts 150 to 189; or leave the section as it presently reads.
2. Submit one (1) copy of the your final printed labeling before you release this product for shipment under the subject labeling

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA, section 6(e). Your release for shipment of this product under this label constitutes acceptance of these conditions.

A stamped copy of the proposed label is enclosed for your records.

Sincerely yours,

for Eugene M. Wilson
Joanne I. Miller
Product Manager (23)
Herbicide Branch
Registration Division (7505C)

Enclosure



Velpar® ULW

herbicide

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

**ACCEPTED
with COMMENTS
In EPA Letter Dated**

MAY 17 2001

**Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under 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.)

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. Wash thoroughly with soap and water after handling.

PERSONAL PROTECTIVE EQUIPMENT

Some materials that are chemical resistant to this product are listed below. If you want more options follow the instructions for Category A on an EPA chemical resistance category selection chart.

Applicators and other handlers must wear:

Long-sleeved shirt and long pants.

Chemical resistant gloves in Category A (such as butyl rubber, natural rubber, neoprene rubber, or nitrile rubber) all ≥14 mls.

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 refoliation 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 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 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

Chemical resistant gloves in Category A (such as butyl rubber, natural rubber, neoprene rubber, or nitrile rubber) all ≥ 14 mls.

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
- Longleaf pine
- Shortleaf pine
- Slash pine
- Virginia 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)
Foxtail	

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)	Russian olive
Dogwood* (flowering)	Sumac*
Eastern red cedar*	Sweetgum
Elm	Wild plum
Hawthorn	Willow
Hickory*	
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 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 and natural 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, 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 mechanical cutting or clearing, stumps and injured trees should be allowed sufficient time to adequately resprout before VELPAR® ULW application.
- 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. Store in a cool, dry place.

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

Container Disposal: For Plastic Containers: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke. **For Fiber Sacks:** Completely empty fiber sack by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into manufacturing or application equipment. Then dispose of sack in a sanitary landfill or by incineration if allowed by State and local authorities. **For Fiber Drums With Liners:** Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then dispose of liner in a sanitary landfill or by incineration if allowed by State and local authorities. If drum is contaminated and cannot be reused, dispose of in the same manner. **For Metal Containers (non aerosol):** Triple rinse (or equivalent) the container. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. **For Paper and Plastic Bags:** Completely empty bag into application equipment. Then dispose of empty bag 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.

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LIMITATION OF WARRANTY AND LIABILITY

NOTICE: Read This Limitation of Warranty and Liability Before Buying or Using This Product. If the Terms Are Not Acceptable, Return the Product at Once, Unopened, and the Purchase Price Will Be Refunded.

It is impossible to eliminate all risks associated with the use of this product. Such risks arise from weather conditions, soil factors, off target movement, unconventional farming techniques, presence of other materials, the manner of use or application, or other unknown factors, all of which are beyond the control of DuPont. These risks can cause: ineffectiveness of the product; crop injury, or; injury to non-target crops or plants.

DuPont does not agree to be an insurer of these risks. **WHEN YOU BUY OR USE THIS PRODUCT, YOU AGREE TO ACCEPT THESE RISKS.**

DuPont warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for the purpose stated in the Directions for Use, subject to the inherent risks described above, when used in accordance with the Directions for Use under normal conditions.

DUPONT MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR OF MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

IN NO EVENT SHALL DUPONT OR SELLER BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT. BUYER'S OR USER'S BARGAINED-FOR EXPECTATION IS CROP PROTECTION. THE EXCLUSIVE REMEDY OF THE USER OR BUYER AND THE EXCLUSIVE LIABILITY OF DUPONT OR SELLER, FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY OR CONTRACT, NEGLIGENCE, TORT OR STRICT LIABILITY), WHETHER FROM FAILURE TO PERFORM OR INJURY TO CROPS OR OTHER PLANTS, AND RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT, OR AT THE ELECTION OF DUPONT OR SELLER, THE REPLACEMENT OF THE PRODUCT.

DuPont or its Ag Retailer must have prompt notice of any claim so that an immediate inspection of buyer's or user's growing crops can be made. Buyer and all users shall promptly notify DuPont or a DuPont Ag Retailer of any claims, whether based on contract, negligence, strict liability, other tort or otherwise or be barred from any remedy.

This Limitation of Warranty and Liability may not be amended by any oral or written agreement.

For product information call: 1-888-6-DUPONT

Internet address: www.dupont.com/ag/us

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