

PM 23 .352-450  
p. 165

02 DEC 1992

Willy Lin, Ph.D.  
AG, BMP37/5-121  
E.I. du Pont de Nemours & Co., Inc.  
P.O. Box 80038  
Wilmington, DE 19880-0038

Dear Dr. Lin:

Subject: Du Pont Velpar<sup>®</sup> ULW Herbicide  
EPA Registration No. 352-450  
Application Dated October 26, 1992, Requested  
Amendments To Add Grazing Restrictions, Revised  
Environmental Hazards Section, Incorporation of  
Supplemental Labels for Forestry in the West  
and Industrial Weed Control and Application by Solo  
Applicators

The proposed amendments to the registration of the  
subject pesticide product under the Federal Insecticide,  
Fungicide and Rodenticide Act (FIFRA) as amended have been  
reviewed and are acceptable provided that you:

1. Revise the General Information section by deleting  
claim for non-cropland areas. This claim may be  
replaced by identifying the specific areas listed  
under the Industrial Weed Control section (with  
the exception of "similar areas", they must be  
specifically identified).
2. The "Note" under the How to Apply section must be  
revised to read: "Do not cut for forage or hay, or  
graze livestock on treated areas until after 60 days  
from the time of application". We note that you  
claim that the data supports shorter periods to  
harvest of forage or hay, or grazing. As stated  
in the review of the data cited, our reviewers  
determined that the 60-day restriction was appropriate  
for this chemical. Until adequate data are available  
to support a shorter interval, you must limit this  
restriction to 60 days. The data cited did not  
factor-in metabolite C.

If you wish to cite other data in support of the  
shorter intervals, the restriction must be rewritten  
to delete the statement: "Do not graze or feed where  
rates over 8 lbs per acre Velpar ULW have been used".  
There are no rates over 8 lbs per acre claimed  
on this labeling.

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3. Number the "Notes" under West of Rocky Mountains for easy reference.
4. Clearly describe when to use the range of dosages given for the Industrial Weed Control section, as you did in the previous section on conifer release. The user of this product should know when to use dosages between 2 1/2 and 6 lbs of this product. Tell the user when to use 3 or 4 lbs per acre? Reference to the higher rate is inadequate.

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 the product constitutes acceptance of these conditions.

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

Sincerely yours,

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

E. Wilson: Diskette # ABC2-12-01-92

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REGISTRATION CODE 0000-000

PACKAGE SIZE  
50 POUND BOX



# VELPAR® ULW

## HERBICIDE

GRANULES  
BY WEIGHT

### ACTIVE INGREDIENT

Hexazinone [3-cyclohexyl-6-(dimethylamino)-1-methyl,3,5-triazine-2,4(1H,3H)-dione] ..... 75%

INERT INGREDIENTS ..... 25%

TOTAL 100%

EPA Reg. No. 352-450

U.S. Pats. 3,902,887 & 3,983,116

**KEEP OUT OF REACH OF CHILDREN**

## DANGER

**PELIGRO** PRECAUCION AL USUARIO: Si usted no lee ingles, no use este producto hasta que la etiqueta haya sido explicada ampliamente.

### 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. Mixers, loaders and applicators must wear goggles, face shield or safety glasses. Remove and wash contaminated clothing before reuse.

ACCEPTED  
with COMMENTS

02 DEC 1992

### 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.

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

Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, this product is registered under EPA Reg. No.

352-450

### 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 apply where runoff is likely to occur. Do not contaminate water when disposing of equipment washwaters.

**IMPORTANT**--Injury to or loss of desirable trees or other plants may result from failure to observe the following: Do not apply except as recommended or drain or flush equipment on or near desirable trees or other plants, or on areas where their roots may extend, or in locations where the chemical may be washed or moved into contact with their roots. Do not use on lawns, walks, driveways, tennis courts, or similar areas. Prevent drift of granules to desirable plants. Keep from contact with fertilizers, insecticides, fungicides and seeds. Thoroughly clean all traces of Velpar ULW Herbicide from application equipment immediately after use. Wash equipment thoroughly with water.

### GENERAL INFORMATION

"Velpar" ULW Herbicide is a special granular product to be distributed dry in a broadcast pattern on the soil surface in reforestation and non-cropland areas for control of undesirable woody and herbaceous plants. Rainfall dissolves the chemical (hexazinone) from the granules and moves the herbicide into the root zone where it is absorbed during periods of active plant growth.

Symptoms of herbicidal activity generally appear within 3 to 4 weeks for herbaceous plants and 4 to 8 weeks for woody plants, after sufficient rainfall has carried the herbicide into the root zone. Results may be slow to appear and maximum effects will occur 12 to 24 months following application. Debilitation and subsequent rebilitation may occur, but susceptible plants are killed.

### 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.

Du Pont will not be responsible for losses or damages resulting from use of this product in any manner not specifically recommended by Du Pont. User assumes all risk associated with such non-recommended use.

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## HOW TO APPLY

Wear gloves when handling granules to prevent contact with skin. Apply before or during the period of active growth, when rainfall can be expected to activate the chemical in the soil. Do not apply to frozen soil, or to water saturated soils when rainfall is expected within 24 hours. Distribution across treatment swath must be uniform.

Do not apply this product through any type of irrigation system.

Note: Do not cut for forage or hay nor graze animals on treated acres within 15 days after treatment of 4 lbs. (or less) "Velpar" ULW per acre; for rates over 4 lbs to 8 lbs per acre, 30 days after treatment. Do not graze or feed where rates over 8 lbs per acre "Velpar" ULW have been used.

## FOR CONTROL OF CERTAIN WEED AND BRUSH SPECIES FOR FORESTRY SITE PREPARATION AND CONIFER RELEASE

Apply the granules using Du Pont ULW Applicator aerial equipment. Calibrate the equipment to distribute the granules uniformly over the area to be treated. "Velpar" ULW granules may also be applied by ground using a Solo\* back pack equipped with a granular applicator that has been modified to handle recommended use rates for sites preparation.

\* Registered trademark of Solo, Inc.

### East of Rocky Mountains:

"Velpar" ULW is recommended for forestry site preparation and conifer release in areas of greater than 20 inches of annual rainfall where loblolly, longleaf, red, shortleaf, slash and Virginia pines are grown. "Velpar" ULW is also recommended for site preparation where white spruce will be planted.

When used as directed, "Velpar" ULW controls herbaceous weeds such as:

|                  |                        |
|------------------|------------------------|
| annual bluegrass | false-dandelion        |
| barnyardgrass    | fleabane               |
| bentgrass        | foxtail                |
| bromegrass       | oxeye daisy            |
| catsear          | Pennsylvania smartweed |
| common groundsel | velvetgrass            |
| common ragweed   | wild carrot            |

Treatment provides partial control of

|                       |              |
|-----------------------|--------------|
| curly dock            | horsetweed   |
| dandelion             | orchardgrass |
| willowweed (fireweed) | quackgrass   |
| fescue                | ryegrass     |
| goldenrod             |              |

"Velpar" ULW, when used as directed, also controls many woody plants including

|  |  |
|--|--|
| American elder                                     | hazel*   |
| ashes* (white, green)                              | hickory*   |
| aspens (big tooth, trembling)                      | honeysuckle  |
| balsam poplar                                      | hornbeam   |
| birch  | mulberry   |
| blackcherry  | multiflora rose  |
| blackgum*  | red maple*   |
| brambles (such as blackberry, dewberry, raspberry) | oaks (such as post, southern red, turkey, water and white) |
| cherry*  | Russian olive  |
| chokecherry*                                       | sourwood*  |
| dogwood* (flowering)                               | sumac*   |
| eastern red cedar*                                 | sweetgum   |
| elm  | wild plum  |
| hawthorne  | willow   |

\* considered hard to kill

For best results, apply in spring when weeds and brush are growing, after the danger of a killing frost has passed (for target species) and when sufficient rainfall for activation of the herbicide is expected.

### APPLY AT THE FOLLOWING RATES FOR SOIL TEXTURE:

| SOIL TEXTURE   | POUNDS PRODUCT PER ACRE       |                              |
|--|-------------------------------|------------------------------|
|  | SITE PREPARATION <sup>1</sup> | CONIFER RELEASE <sup>2</sup> |
| Sand, Loamy Sand, Sandy Loam                                   | 2 1/2 to 4                    | 1 to 2                       |
| Loam, Sandy Clay Loam, Silt Loam                               | 4 to 5 1/3                    | 2 to 3                       |
| Clay Loam, Sandy Clay, Silty Clay Loam, Silt, Silty Clay, Clay | 5 1/3 to 8                    | 3 to 4                       |

<sup>1</sup> In Site Preparation Areas, where burning is desired, burn only after residual stand has completely deloliated at least twice, allowing for sufficient root uptake of "Velpar" ULW usually 60 to 90 days after rainfall.

<sup>2</sup> In Conifer Release Areas, some mortality of conifers may be experienced when application is erratic or sapling vigor is lacking due to damage by insects, disease, drought, winter stress or other stress. Excessive injury may result when applications are made to loblolly pine that are less than 4 years of age since transplanting on coarse textured soils or 3 years of age since transplanting on fine textured soils. Application to gravelly, rocky or exposed subsoil may result in conifer injury.

Note: "Velpar" ULW is not recommended on poorly drained soils or marshy sites. 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 rate when hard-to-kill species predominate.

### West of Rocky Mountains:

"Velpar" ULW is recommended for forestry site preparation and conifer release where Douglas fir, grand fir, Jeffrey pine, noble fir, ponderosa pine, Sitka spruce, and white fir are grown.

Plants controlled are:

|                           |                                   |
|---------------------------|-----------------------------------|
| Annual bluegrass          | foxtail                           |
| barnyardgrass             | greenleaf manzanita               |
| bromegrass                | oxeye daisy                       |
| catsear (false dandelion) | snowbrush (varnishleaf ceanothus) |
| common groundsel          | squawcarpet                       |
| deerbrush                 | velvet grass                      |
| fleabane                  | wild carrot                       |

Plants partially controlled are

|              |                       |
|--------------|-----------------------|
| Dandelion    | ryegrass              |
| fescue       | smartweed             |
| goldenrod    | willowweed (fireweed) |
| heath aster  |                       |
| orchardgrass |                       |

Apply before or during the period of active growth, when rainfall can be expected to activate the chemical in the soil. Do not apply to frozen soil. Do not apply to saturated soils. Distribution across treatment swath must be uniform.

For herbaceous control, use 1-1/3 to 4 lbs. "Velpar" ULW per acre and 2 to 4 lbs per acre for brush control. 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 higher rates for large brush. "Velpar" ULW effects may be slow to appear and maximum results will be seen 12 to 24 months following the application.

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**Rainbelt (areas of high spring rainfall):** For best results, apply in the late winter or spring when weeds are actively growing. Weed control is dependent on sufficient rainfall following treatment to activate "Velpar" ULW.

**Snowbelt (areas of low spring rainfall):** For best results, apply in the fall before soil freezes, or in the spring in anticipation of rainfall. Weed control results from spring applications will be dependent on sufficient rainfall following treatment to activate "Velpar" ULW. Spring application should be made after snow melts.

**Note:**

① Use on gravelly or rocky soils, exposed subsoils, clay knobs, sand or sandy soils with 85% or more sand may cause conifer injury or mortality and poor weed and brush control may occur.

② Conifer injury or mortality may occur on any soils containing less than 1% organic matter.

③ On soils high in organic matter (greater than 5%) effectiveness of "Velpar" ULW is reduced and results may be unsatisfactory.

Use on loamy sand or sandy loam with less than 2% organic matter may cause conifer injury except for ponderosa and Jeffrey pine.

Use on first year plantation, "Velpar" ULW may only be applied (either preplant or postplant) to transplant stock that is 2 years old (2-0) or more, except for 1 year old (1-0) for ponderosa and Jeffrey pine.

When applying "Velpar" ULW after transplanting, wait until rainfall has settled the soil around the base of the transplants before making the treatment.

Damage may occur to incense cedar, sugar pine and giant sequoia.

Heavy duff, slash or ash present at time of application may result in poor weed or brush control.

Poor weed and brush control may occur from use on poorly drained or marshy sites.

Poor weed and brush control may occur from applications made when the soil is saturated with water and rain is imminent within 24 hours.

*Remember These*

**INDUSTRIAL WEED CONTROL**

Du Pont "Velpar" ULW Herbicide may be applied dry for control of many weeds in areas such as railroads, highways, utility and pipeline rights-of-way, petroleum tank farms, storage areas, plant sites and similar areas:

**HOW TO APPLY**

Apply "Velpar" ULW granules using dry application (ground) equipment to distribute the granules uniformly to the target area. Apply preemergence or early postemergence to seedling weeds. Do not apply to frozen or snow-covered soil.

**SHORT-TERM CONTROL (up to 3 months):**

Apply "Velpar" ULW at the rate of 2-1/2 to 6 lbs per acre for control of many annual, biennial and perennial weeds:

- |                 |                   |
|-----------------|-------------------|
| Barnyardgrass   | Lespedeza         |
| Bindweed*       | Milkweed*         |
| Bouncingbet*    | Mustard           |
| Bromegrass      | Nutsedge*         |
| Buffalograss*   | Orchardgrass*     |
| Burdock         | Oxalis            |
| Cocklebur       | Paragrass         |
| Crabgrass       | Pigweed           |
| Crownvetch      | Purslane          |
| Curly dock*     | Quackgrass        |
| Dandelion*      | Ryegrass          |
| Dogbane*        | Smartweed         |
| Fiddleneck      | Spurge            |
| F.larce         | Trumpet creeper*  |
| Fleabane        | Wild oats*        |
| Goatsbeard vine | Wild parsnip*     |
| Goklenrod       | Wild star thistle |

Use lower rates for short term control.

\* Considered hard to kill; partial control or suppression only; use higher rates.

**SEASON-LONG CONTROL:**

Apply "Velpar" ULW at the rate of 7 to 15 lbs per acre. Species controlled:

- |                 |                  |
|-----------------|------------------|
| Bahiagrass*     | Heath aster      |
| Bermudagrass*   | Honeysuckle      |
| Bluegrass       | Lantana          |
| Broomsedge      | Marestail        |
| Camphorweed     | Natalgrass       |
| Canada thistle* | Plantain         |
| Chickweed       | Prickly lettuce  |
| Clovers         | Ragweed          |
| Dawbarry        | Smutgrass        |
| Dogfennel*      | Spanish nettle   |
| Fescue*         | Vaseygrass       |
| Fingergrass     | Wild blackberry* |
| Foxtail         | Wild carrot      |
| Guineagrass     |                  |

\* Considered hard to kill; partial control or suppression only; use higher rates.

**STORAGE AND DISPOSAL**

**STORAGE:** Do not contaminate water, food or feed by storage or disposal.

**PRODUCT DISPOSAL:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide spray mixture or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**CONTAINER DISPOSAL:** Completely empty bag by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment, then, dispose of bags 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**

Du Pont 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 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 Du Pont. In no case shall Du Pont 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. DU PONT 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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*Use must be made in accordance with the label instructions. Do not use in the presence of children.*