

pm25

352-425

146

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division

OCT 22 1993

Ian Wellings
E. I. DU PONT DE NEMOURS AND CO, INC.
BARLEY MILL PLAZA, WALKER'S MILL
WILMINGTON DE 19880

Subject: Label Amendment Submission of 06/24/93
to Comply with WPS Labeling Requirements
EPA Reg Nr. 352-425
DUPONT HYVAR L CITRUS HERBICIDE

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is accepted subject to the comments listed below.

Based on your certification, the Agency has accepted only those changes to your labeling which are necessary to comply with PR Notices 93-7 and 93-11, which reflect the WPS labeling requirements of 40 CFR part 156, subpart K. Any other labeling changes submitted in connection with this amendment application and not directly related to compliance with PR Notice 93-7 or 93-11 have neither been reviewed nor accepted by the Agency. If you wish to make any such changes, you must submit a separate amendment application proposing them. If your product registration is currently suspended, acceptance of this labeling amendment does not affect the suspension in any way.

A copy of your proposed labeling stamped, "Accepted with comments", is attached. Make any required changes described below and send three copies of final labeling as soon as it is available to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs (H-7504C)
U.S. Environmental Protection Agency
401 M Street, SW
Washington, DC 20460-0001

BEST AVAILABLE COPY

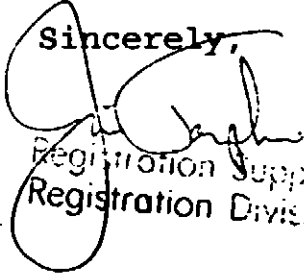
E. I. DU PONT DE NEMOURS AND CO, INC.
EPA Reg. Number: 352-425
DUPONT HYVAR L CITRUS HERBICIDE
Application date: 06/24/93
Original Submission

Hand or courier deliveries of final labels may be made to:

Document Processing Desk (FIN-LABEL)
Room 266A, Crystal Mall 2
1921 Jefferson Davis Highway
Arlington, VA 22202

Please correct the typographical errors circled on the draft before printing final labeling.

In your final labeling, the "Agricultural Use Requirements" text must be contained in a clearly separate box. This box may be set apart by a line, by another graphical device, by a different color background, or in any other way that clearly distinguishes it from surrounding text.

Sincerely,

Registration Support Branch
Registration Division

BEST AVAILABLE COPY

3 of 6

ACCEPTED
with COMMENTS
in EPA Letter Dated

OCT 22 1993

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

352-425



HYVAR® L

CITRUS HERBICIDE

WATER SOLUBLE LIQUID

For Use In The States of Florida and Texas Only

1 Gallon Contains 3.2 Pounds Bromacil

ACTIVE INGREDIENT

BY WEIGHT

Lithium salt of bromacil (5-bromo-3-sec-butyl-6-methyluracil) 33.8%

INERT INGREDIENTS 66.2%

TOTAL 100%

EPA Reg. No. 352-425

U.S. Pats. 3,352,862 & 3,909,236

KEEP OUT OF REACH OF CHILDREN

WARNING

AVISO

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: Flush with plenty of water. Get medical attention 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.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING! HARMFUL OR FATAL IF SWALLOWED. CAUSES EYE IRRITATION. MAY IRRITATE NOSE, THROAT, AND SKIN.

Do not get in eyes. Avoid contact with skin and clothing. Avoid breathing vapors.

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 C on an EPA chemical-resistance category selection chart.

Applicators and other handlers must wear:

Long-sleeve shirt and long pants.

Chemical-resistant gloves, such as barrier laminate or butyl rubber or nitrile rubber or polyvinyl chloride (PVC) or viton or neoprene rubber.

Shoes plus socks.

Protective eyewear.

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 any body of water. Do not contaminate water by cleaning of equipment or disposal of wastes.

Bromacil is a chemical which can travel (seep or leach) through soil and can enter ground water which may be used as drinking water. Bromacil has been found in ground water as a result of agricultural use. The correct use rates by geographical area, specified herein, and proper mixing-loading site precautions and procedures must be followed to minimize potential bromacil movement into groundwater.

PHYSICAL AND CHEMICAL HAZARDS

Combustible. Keep container closed when not in use.

BEST AVAILABLE COPY

496

IMPORTANT

Injury to or loss of desirable trees or other plants may result from failure to observe the following: Do not apply, 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 or spray to desirable plants. Do not contaminate domestic waters. Thoroughly clean all traces of "Hyvar" L Citrus Herbicide from application equipment immediately after use. Flush tank, pump, hoses, and boom with several changes of water after removing nozzle tips and screens (clean these parts separately).

PESTICIDE HANDLING

- Calibrate sprayers only with clean water away from the well site.
- Make scheduled checks with spray equipment.
- Assure accurate measurement of pesticides by all operation employees.
- Mix only enough product for the job at hand.
- Avoid over-filling of spray tank.
- Do not discharge excess material on the soil at a single spot in the field/grove or mixing/loading station.
- Dilute and agitate excess solution and apply at labeled rates/uses.
- Avoid storage of pesticides near well sites.

GENERAL INFORMATION

Du Pont "Hyvar" L Citrus Herbicide is an effective general herbicide for use on citrus for control of many annual and perennial weeds, and is particularly useful for control of perennial grasses. It is a water soluble liquid to be mixed in water and applied as a spray.

"Hyvar" L, after mixing in water, is non-volatile, non-flammable, and non-corrosive to metals except aluminum.

"Hyvar" L controls many annual and certain perennial weeds. For annuals, apply any time of the year, preferably shortly before or after weed growth begins when adequate moisture is available. For perennials, best results are obtained if application is made shortly before or shortly after weed growth begins; if dense growth is present, remove tops and spray the ground. Effects on perennial weeds are slow to appear, usually progressing over a period of several months.

Effects are slow to appear and may not become apparent until the chemical has been carried into the root zone of the weeds by moisture. Moisture is necessary to activate the herbicide; best results are obtained if treatment is made to moist soil, and moisture is supplied by rainfall or sprinkler irrigation within two weeks after application. The degree of control and duration of effect will vary on the application rate, soil texture, rainfall and other conditions.

The degree of control and duration of effect will vary with the amount of chemical applied, soil type, rainfall, and other conditions.

DIRECTIONS FOR USE

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

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, such as barrier laminate or butyl rubber or nitrile rubber or polyvinyl chloride (PVC) or viton or neoprene rubber.
- Shoes plus socks.
- Protective eyewear.

"Hyvar" L should be used only in accordance with recommendations on this label, or in separate published Du Pont recommendations available through local dealers.

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 risks associated with such nonrecommended use.

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

Apply "Hyvar" L before or during the period of active growth of plants to be controlled when rainfall can be expected for soil activation. If dense growth is present, results will be improved if vegetation is removed before treatment.

Before spraying, calibrate equipment to determine quantity of water necessary to uniformly cover measured area to be treated. Measure the proper amount of "Hyvar" L and mix into the necessary volume of water. After "Hyvar" L has been thoroughly mixed in the spray tank, agitation of the spray solution is not required. However, if "Hyvar" L is tank mixed with wettable powders, adequate, continuous agitation is required.

Use a fixed-boom power sprayer properly calibrated to a constant speed and rate of delivery.

NOTE: Do not tank mix "Hyvar" L with acidic herbicides such as "Roundup" I or with liquid fertilizers.

Best results are obtained if "Hyvar" L is applied to bare ground. If dense populations of hard-to-kill species are present, control of these weeds prior to application of "Hyvar" L is recommended.

Apply as a band or broadcast treatment beneath and/or between trees. Avoid contact of foliage and fruit with spray or mist.

Dosages of "Hyvar" L are expressed as broadcast rates; for band treatment use proportionately less.

Do not graze cattle in treated areas.

Temporary yellowing or vein clearing of citrus leaves may occur following treatment. Because injury to citrus trees may result; do not use on soils with less than 1% organic matter, poorly drained soils, gravelly soils, nor thinly covered or exposed subsoils; do not treat plants in irrigation furrows; do not treat diseased or stressed trees.

Do not use in citrus groves interplanted with other trees or desirable plants, or in home citrus plantings or in areas where roots of valuable plants or trees may extend as plant injury may result.

Treated areas may be planted to citrus trees one year after last application; do not replant to other crops within 2 years after last application as plant injury may result.

Control of perennials may be improved by cultivation, otherwise, avoid working the soil as long as weed control effectiveness of the treatment may be reduced.

CITRUS

Apply with a properly calibrated sprayer as a band or broadcast treatment beneath and/or between trees. Use sufficient water (minimum 40 gallons per treated acre) to obtain uniform coverage.

Do not use with aluminum nozzles.

Avoid contact of foliage and fruit with spray or mist.

Avoid overlapping of the herbicide swath, and shut off spray boom while starting, turning, slowing or stopping, or injury to trees may occur.

WEEDS CONTROLLED

Annuals

harmyardgrass	puncturevine
crabgrass	purslane
crowfootgrass	sandspur
Florida pusley	sedge (annual)
henbit	sprangletop
lambquarter	Texas panicum
mustard	turkey mullein
natalgrass (red top)	

Perennials

bermudagrass	Bahiagrass
torpedograss	Johnsongrass
paragrass	nutsedge
pangolagrass	

FLORIDA

* East Coast/Flatwoods Areas - (low permeable soils):

- The maximum allowable is 6.4 lbs active (bromacil) per acre per year.
The allowable amount is inclusive of all bromacil formulations used within one year.
- Under the above guidelines, do not apply more than 8 qts. per acre per year of "Hyvar" L which contains 6.4 lbs active (bromacil).
- Multiple applications may improve control of "hard-to-kill" species.

Trees Established Less Than One Year

For control of annuals, apply 2 to 3 quarts of "Hyvar" L per acre as needed to maintain weed control. Do not apply at less than 60 day intervals; do not apply more than 6 quarts per acre within any 6 month period, or more than 8 quarts during the first year.

Trees Established One to Three Years

For control of annuals, apply 2 to 3 quarts of "Hyvar" L per acre as needed to maintain weed control. Do not apply more than 6 quarts per acre within any 6 month period, or more than 8 quarts per acre per year.

Trees Established Three or More Years

Apply 2 to 4 quarts per acre as needed to maintain weed control. Do not use more than 5 quarts per acre in any one application, nor more than 8 quarts per acre per year. For control of perennials, use the high rate. Partial control usually occurs with a single treatment; repeat applications are required to control perennials.

* Ridge Areas - (highly permeable soils)

- The maximum allowable is 4.2 lbs active (bromacil) per acre per year.
The allowable amount is inclusive of all bromacil formulations used within one year.
- Under the above guidelines, do not apply more than 5.25 qts per acre per year of "Hyvar" L which contains 4.2 lbs active (bromacil).
- Multiple applications may improve control of "hard-to-kill" species.

Trees Established Less Than One Year

For control of annuals, apply 2 to 3 quarts of "Hyvar" L per acre as needed to maintain weed control. Do not apply at less than 60 day intervals; do not use more than 5.25 qts per acre per year.

Trees Established One to Three Years

For control of annuals, apply 2 to 3 quarts per acre of "Hyvar" L per acre as needed to maintain weed control. Do not use more than 5.25 qts per acre per year.

Trees Established Three or More Years

Apply 2 to 4 quarts per acre as needed to maintain weed control. Do not use more than 4 quarts per acre in any one application, nor more than 5.25 qts per acre per year. For control of perennials, use the high rate. Partial control usually occurs with a single treatment; repeat applications are required to control perennials.

TEXAS

Trees Less than One Year Old

In newly developed groves or in groves that have been heavily reset, apply 2 to 3 quarts "Hyvar" L per acre as needed to maintain weed control. Do not apply at less than 60 day intervals; do not apply more than 6 quarts per acre within any 6 month period, or more than 8 quarts per acre during the first year.

Trees Established One to Three Years

Apply 2 to 3 quarts per acre as needed to maintain weed control. Do not apply more than 6 quarts per acre within any 6 month period, or more than 8 quarts per acre per year.

Trees Established for Four Years or More

For annual weeds control apply 2 to 4 quarts per acre. For perennial weed control make a single application per year during the period from winter to early summer; use at the following rates:

Soil Texture	Qts. "Hyvar" L Per Acre
Sand, loamy sand	4 to 5
Sandy loam	5 to 6
Silt loam, clay loam	6 to 8

Alternatively, make two applications of 3 to 4 qts. "Hyvar" L per acre per year in spring and summer. Partial control of perennials usually occurs with a single treatment; repeat applications are required for control.

STORAGE AND DISPOSAL

STORAGE: This product should not be stored at temperatures below 32 degrees F. Store product in original container only, away from other pesticides, fertilizer, food, or feed. Keep away from heat and flame.

PESTICIDE DISPOSAL: Do not contaminate water, food, or feed by storage or disposal. Wastes resulting from the use of this product may be disposed of on site or at 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

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.

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 the seller 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.

1 Registered Trademark of Monsanto Co.

AG - 3257 8049 4/13/89

BEST AVAILABLE COPY