



## OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

WASHINGTON, D.C. 20460

January 7, 2026

Julie Porter  
Director of Regulatory Compliance  
AMVAC Chemical Corporation  
4695 MacArthur Court, Suite 1200  
Newport Beach, CA 92660

Subject: Label Amendment - Registration Review Mitigation for Bromacil  
Product Name: HYVAR X HERBICIDE  
EPA Registration Number: 5481-632  
Case Number: 473724  
Application Dates: October 30, 2020

Dear Julie Porter:

The Agency, in accordance with the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, has completed reviewing all the information submitted with your application to support the Registration Review of the above referenced product in connection with the Bromacil Interim Decision, and has concluded that your submission is acceptable. The label referred to above, submitted in connection with registration under FIFRA, as amended, is acceptable.

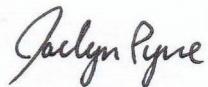
Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide, Fungicide, and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance Assurance.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling and must be used at your next label printing. You must submit one copy of the final printed labeling before you release the product for

shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 12 months from the date of this letter. After 12 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

If you have any questions about this letter, please contact Carolyn Smith by phone at (202) 566-2273, or via email at [smith.carolyn@epa.gov](mailto:smith.carolyn@epa.gov).

Sincerely,



Jaclyn Pyne, Team Leader  
Risk Management and Implementation Branch 3  
Pesticide Re-Evaluation Division  
Office of Pesticide Programs

ENCLOSURE: Stamped label

|          |       |   |           |
|----------|-------|---|-----------|
| BROMACIL | GROUP | 5 | HERBICIDE |
|----------|-------|---|-----------|

# HYVAR® X HERBICIDE

(Alternate Brand Names: Hyvar CP and Hyvar X Crop Herbicide)

Wettable Powder

**Active Ingredient**

|  | <b>By Weight</b> |
|--|------------------|
| Bromacil (5-bromo-3-sec-butyl-6-methyluracil)..... | 80%              |
| <b>Other Ingredients</b> .....                     | 20%              |
| <b>TOTAL</b> .....                                 | 100%             |

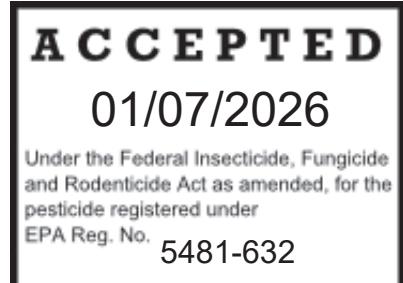
EPA Reg. No. 5481-632

EPA Est. No. \_\_\_\_\_

Nonrefillable Container Net: \_\_\_\_\_ or Refillable Container Net: \_\_\_\_\_

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**



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.)

| <b>FIRST AID</b>   |  |  |
|--|--|--|
| <b>IF IN EYES:</b>   | <ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li><li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>  |  |
| <b>IF SWALLOWED:</b>   | <ul style="list-style-type: none"><li>• Call a poison control center or doctor immediately for treatment advice.</li><li>• Have person sip a glass of water if able to swallow.</li><li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li><li>• Do not give anything by mouth to an unconscious person</li></ul> |  |
| <b>IF ON SKIN OR CLOTHING:</b>   | <ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>  |  |
| Have the product container or label with you when calling a poison control center or doctor, or going for treatment. |  |  |
| FOR THE FOLLOWING EMERGENCIES, PHONE 24 HOURS A DAY:   |  |  |
| For medical emergencies involving this product, call toll free .....   | 1-888-681-4261   |  |
| For Transportation Emergencies, including spill, leak or fire, phone: CHEMTREC® .....                                |  |  |
| For product information, call AMVAC® .....   |  |  |



AMVAC Chemical Corporation  
4695 MacArthur Court, Suite 1200  
Newport Beach, CA 92660 U.S.A.

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## PRECAUTIONARY STATEMENTS

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### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. Avoid contact with eyes, skin, or clothing.

### PERSONAL PROTECTIVE EQUIPMENT (PPE)

#### Applicators and other handlers must wear:

- Long-sleeved shirt and long pants.
- Shoes plus socks.
- Chemical-resistant gloves made of waterproof material (barrier laminate, butyl rubber  $\geq$  14 mils, natural rubber  $\geq$  14 mils, neoprene rubber  $\geq$  14 mils, nitrile rubber  $\geq$  14 mils, polyethylene, polyvinyl chloride (PVC)  $\geq$  14 mils, or viton  $\geq$  14 mils).

#### Mixers and Loaders must also wear:

A non-powered air purifying respirator equipped with a N, R, or P series filter (NIOSH approved number prefix 84A) for mixing and loading.

Discard clothing or 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.

### ENGINEERING CONTROL STATEMENT

When handlers use closed systems, enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

### USER SAFETY RECOMMENDATIONS

Users should: Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

### 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 cleaning equipment or disposing of equipment washwaters or rinsate.

Bromacil is known to leach through soil and has been found in ground water as a result of normal field use. Users are advised not to apply in areas where soils are permeable, particularly where ground water is used for drinking water. Consult with the pesticide state lead agency for information regarding soil permeability and aquifer vulnerability in your area.

NON-TARGET ORGANISM ADVISORY: This product is toxic to plants and may adversely impact the forage and habitat of non-target organisms, including pollinators, in areas adjacent to the treated site. Protect the forage and habitat of non-target organisms by following label directions intended to minimize spray drift.

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## PRODUCT INFORMATION

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HYVAR® X HERBICIDE is a wettable powder to be mixed in water and applied as a spray for non-selective weed and brush control in non-cropland areas and for selective weed control in certain crops. HYVAR® X HERBICIDE is an effective general herbicide that controls many annual weeds at lower rates and perennial weeds and brush at the highest rates allowed by this label. It is particularly useful for the control of perennial grasses.

Moisture is necessary to move the herbicide into the root zone of weeds. 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.

Weed control symptoms are slow to appear and may not become apparent until the herbicide has been carried into the root zone of the weeds by moisture. The degree and duration of control will vary with the amount of herbicide applied, soil texture, rainfall, and other soil and water management practices.

### USE PRECAUTIONS AND RESTRICTIONS

HYVAR® X HERBICIDE is not to be used in any recreational areas or in or around homes.

Injury to or loss of desirable trees or other plants may result from failure to observe the following: Do not apply (except as specified for crop use), 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 dry powder or spray to desirable plants. Keep from contact with fertilizers, insecticides, fungicides, and seeds. Thoroughly clean all traces of HYVAR® X 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).

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

Aerial application of this product is prohibited.

Mechanically-pressurized handgun application of this product on citrus and pineapple is prohibited.

Do not graze cattle in treated areas.

Treated areas may be planted to citrus or pineapple one year after last application. Do not replant to other crops within two years after last application as injury may result.

**Note:**

- Calibrate sprayers only with clean water away from the well site.
- Make scheduled checks of 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.

### TANK MIXTURES

HYVAR® X HERBICIDE may be tank mixed with other suitable herbicides registered for agricultural and non-agricultural use. Refer to the tank mixture partner label(s) for any additional use information or restrictions. Follow the label guidelines that are the most restrictive.

NOTE: HYVAR® X HERBICIDE is a wettable powder formulation and care must be taken to ensure the product is fully suspended in the spray tank carrier (water, liquid fertilizer) before adding any other herbicide or spray adjuvant. If

there is no prior use experience with the tank mixture combination, a small compatibility test should be performed prior to adding the products into the spray tank. See ADDITIONAL INSTRUCTIONS FOR AG AND NON-AG USES section of the label for further information.

When using HYVAR® X HERBICIDE alone or in combination, thoroughly re-agitate the spray tank contents if allowed to settle.

#### **CROP ROTATION BIOASSAY**

In arid climates (10 inches of rainfall or less) or areas where drought conditions have prevailed for one or more years, a field bioassay should be completed prior to planting any desired crop(s). The results from this bioassay may require the two-year crop rotation interval to be extended. A successful field bioassay means growing to maturity a test strip of the crop(s) intended for production. The test strip should cross the entire field including knolls and low areas.

#### **WEED RESISTANCE MANAGEMENT**

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.

Hyvar® X contains Bromacil, a **Group 5** herbicide. Any weed population may contain or develop plants naturally resistant to Hyvar® and other **Group 5** herbicides. The resistant biotypes may dominate the weed populations if these herbicides are used repeatedly in the same field. To minimize this risk, the following management strategies should be taken:

- Rotate the use of Hyvar® X or other **Group 5** herbicides within a growing season sequence or among growing seasons with different herbicide groups that control the same weeds in the field.
- Use tank mixtures with herbicides from a different group if such use is permitted; where information on resistance in target weed species is available, use the less resistance prone partner at a rate that will control the target weed(s) equally as well as the more resistance-prone partner.
- Adopt an integrated weed-management program for herbicide use that includes scouting and uses historical information related to herbicide use.
- Scout after an herbicide application to monitor weed populations for early signs of resistance development. Indicators of resistance include:
  - Failure to control a weed species normally controlled by the herbicide at the labeled dose.
  - A spreading patch of non-controlled plants of a particular weed species.
  - Surviving plants mixed with controlled plants of a particular weed species.
- If a weed population continues to progress after treatment with this product, discontinue use of this product and switch to another management strategy or herbicide with a different mode of action, if available.
- 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.
- Contact your local extension specialist, certified crop advisor, or pest control advisor for additional pesticide resistance-management and/or integrated weed management recommendations for specific weed biotypes.
- For further information or to report suspected resistance, contact your local AMVAC representative or AMVAC Corporation at 1-888-462-6822 or at [www.AMVAC.com](http://www.AMVAC.com).

#### **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.

## **DIRECTIONS FOR USE**

It is a violation of federal law to use this product in a manner inconsistent with its labeling. HYVAR® X HERBICIDE must only be used in accordance with directions on this label. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

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.

### **I. 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 12 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 waterproof material (barrier laminate, butyl rubber ≥ 14 mils, natural rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, polyethylene, polyvinyl chloride (PVC) ≥ 14 mils, or viton ≥ 14 mils).

Shoes plus socks.

### **APPLICATION INFORMATION**

Apply HYVAR® X HERBICIDE using a properly calibrated fixed-boom power sprayer. All use rates of HYVAR® X HERBICIDE are expressed for broadcast treatments. For band treatments, use proportionately less.

Use sufficient spray volume (minimum of 10 gallons per acre) to provide uniform coverage of the treated area and to allow proper dispersion and suspension of the product in the spray tank. Continuous agitation in the spray tank is required to keep the product in suspension. Agitate spray tank contents by mechanical or hydraulic means. If a bypass or return line is used, it should terminate at a bottom of tank to minimize foaming. Do not use air agitation.

Spray booms must be shut off while starting, turning, slowing or stopping as injury to the crop or successive crops may result. Nozzle screens should be 50 mesh or larger.

### **WEEDS CONTROLLED (annuals)**

|                      |                                 |
|----------------------|---------------------------------|
| Barnyardgrass        | <i>Echinochloa crus-galli</i>   |
| Crabgrass            | <i>Digitaria</i> spp.           |
| Crowfootgrass        | <i>Dactyloctenium aegyptium</i> |
| Henbit               | <i>Lamium amplexicaule</i>      |
| Lambsquarter, common | <i>Chenopodium album</i>        |
| Mullien, turkey      | <i>Eremocarpus setigerus</i>    |
| Mustard              | <i>Brassica</i> spp.            |

|                      |                                  |
|----------------------|----------------------------------|
| Natalgrass (red top) | <i>Rhynchospora repens</i>       |
| Panicum, Texas       | <i>Panicum texanum</i>           |
| Puncturevine, common | <i>Tribulus terrestris</i>       |
| Purslane, common     | <i>Portulaca oleracea</i>        |
| Purslane, horse      | <i>Trianthema portulacastrum</i> |
| Pusley, Florida      | <i>Richardia scabra</i>          |
| Sandbur (sandspur)   | <i>Cenchrus spp.</i>             |
| Sedge, annual        | <i>Cyperus compressus</i>        |
| Sprangletop          | <i>Leptochloa spp.</i>           |

#### **WEEDS CONTROLLED (perennials)**

|              |                             |
|--------------|-----------------------------|
| Bahiagrass   | <i>Paspalum notatum</i>     |
| Bermudagrass | <i>Cynodon dactylon</i>     |
| Johnsongrass | <i>Sorghum halepense</i>    |
| Nutsedge     | <i>Cyperus spp.</i>         |
| Pangolagrass | <i>Digitaria decumbens</i>  |
| Paragrass    | <i>Panicum purpurascens</i> |
| Torpedograss | <i>Panicum repens</i>       |

**NOTE:** Partial control of perennials usually occurs with a single treatment; repeat applications are required to control perennials. Control of perennials may be improved by cultivation prior to treatment; otherwise, avoid working the soil as long as weed control continues or else effectiveness of the treatment may be reduced.

#### **1. CITRUS**

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

Temporary yellowing of citrus leaves may occur following treatment. As injury to citrus trees may result, do not use on soils with less than 1% organic matter. Do not use on poorly drained soils, gravelly soils or thinly covered or exposed sub-soils.

Do not treat trees planted in irrigation furrows. Do not treat diseased or stressed trees. Do not use in citrus groves inter-planted with other desirable trees or plants or in areas where roots of desirable trees or plants may extend as injury to desirable trees or plants may result. Do not use in home citrus plantings.

Do not apply more than 8 pounds per acre per year.

When making multiple applications, do not apply at less than 60 day intervals.

#### **FLORIDA**

HYVAR® X HERBICIDE controls many annual weeds, and at the highest rates allowed on this label, it controls certain perennial weeds. It is particularly useful for control of perennial grasses.

Apply HYVAR® X HERBICIDE any time of the year provided rainfall or overhead irrigation is available to activate the herbicide, preferably just before or just after weeds have germinated. Weed control symptoms are slow to appear and may not become apparent until the chemical has been carried into the root zone of the weeds by moisture. Best results are obtained if moisture is supplied by rainfall or sprinkler irrigation within two weeks after application.

Multiple applications may improve control of "hard-to-kill" weeds. The degree and duration of control will vary with the amount of herbicide applied, soil texture, rainfall and other conditions. It is non-corrosive to equipment, non-flammable and non-volatile.

## **PRECAUTIONS AND USE RESTRICTIONS**

The use of HYVAR® X HERBICIDE (bromacil) is prohibited for weed control in non-bedded citrus groves located on any permeable, better drained soil identified in the intended site of application. Permeable, better drained soils which occur in citrus producing areas of the state include soils unnamed and characteristic of quartzsammements, and the following soil series classifications:

Adamsville  
Archbold  
Astatula  
Bahiahonda  
Broward  
Canaveral  
Candler  
Cocoa  
Dade  
Florahome  
Fort Meade  
Gainesville  
Lake  
Lakewood  
Neilhurst  
Orlando  
Orsino  
Palm Beach  
Paola  
Satellite  
St. Augustine  
St. Lucie  
Tavares

Do not use HYVAR® X HERBICIDE in recreational areas or around homes. Prevent drift of dry powder or spray to desirable plants.

Injury to or loss of desirable trees or other plants may result from failure to observe the following: Do not apply (except as specified for crop use), 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. Do not apply directly to water, or to areas where surface water is present, or to inter-tidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash water. Keep from contact with fertilizer, insecticides, fungicides, and seeds. Thoroughly clean all traces of HYVAR® X 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.)

Temporary yellowing of citrus leaves may occur following treatment. Because injury to citrus trees may result, do not use on soils with less than 1.0% organic matter or on poorly drained soils.

Do not treat trees planted in irrigation furrows.

Do not treat diseased or stressed trees.

Do not use in citrus groves inter-planted with other desirable trees or plants, or in areas where roots of desirable trees or plants may extend, as injury to desirable trees or plants may result.

Do not use in home citrus plantings.

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

In areas where drought conditions have prevailed for one or more years, a field bioassay should be completed prior to planting any desired crop(s). The results from this bioassay may require the two-year crop rotation interval to be extended. A successful field bioassay means growing to maturity a test strip of the crop(s) intended for production. The test strip should cross the entire field including knolls and low areas.

#### **APPLICATION INSTRUCTIONS**

Apply HYVAR® X HERBICIDE as a band treatment only using a properly calibrated fixed-boom power sprayer. **Do not use Trunk to Trunk.** All use rates of HYVAR® X HERBICIDE are expressed for broadcast treatments. For band treatments, use proportionately less.

Use sufficient spray volume (minimum of 10 gallons per acre) to provide uniform coverage of the treated area and to allow proper dispersion and suspension of the product in the spray tank. Continuous agitation in the spray tank is required to keep the product in suspension.

Because injury to citrus trees may result, do not use on soils low in organic matter (less than 1%).

Avoid contact of foliage and fruit with spray or mist. Do not apply more than 8 pounds product (6.4 pounds active ingredient) per treated acre per year. The maximum allowable use rate for bromacil is 6.4 pounds active ingredient per treated acre per year inclusive of all bromacil formulations.

Treated areas may be planted to citrus trees one year after the last HYVAR® X HERBICIDE application. Do not replant to other crops within two years after the last HYVAR® X HERBICIDE application as plant injury may result.

Allow an interval of 60 days between application of HYVAR® X HERBICIDE.

Do not harvest citrus until 7 days after the last application.

Do not graze cattle in treated areas.

**Trees Established Up to Three Years:** For control of annual weeds, apply 2-3 pounds of HYVAR® X HERBICIDE per treated acre as needed to maintain weed control. Do not apply more than 6 pounds per treated acre within any 6 month period, or more than 8 pounds per treated acre per year.

**Trees Established Three or More Years:** For control of annual weeds, apply 2-4 pounds of HYVAR® X HERBICIDE per treated acre as needed to maintain weed control. Do not apply more than 4 pounds per treated acre in any one application. Do not use more than 8 pounds per treated acre per year.

#### **WEEDS CONTROLLED (Annuals)**

Barnyardgrass

Crabgrass

Crowfootgrass

Florida pusley

Henbit

Lambsquarter

Mustard

Natalgrass (red top)

Puncturevine

Purslane

Sandspur  
Sedge (annual)  
Sprangletop  
Texas panicum  
Turkey mullein

**WEEDS CONTROLLED (Perennials)**

Bahiagrass  
Bermudagrass  
Johnsongrass  
Nutsedge  
Pangolagrass  
Paragrass  
Torpedograss

**NOTE:** Use the highest rates allowed by this label for best control of perennial weeds listed on this label. Partial control of perennial weeds can result with only a single treatment of HYVAR® X HERBICIDE. Repeat applications are required (in season and/or annually) for best control of the perennial weeds on this label. Control of perennials may be improved by cultivation prior to treatment, otherwise, avoid working the soil as long as weed control continues or else effectiveness of the treatment may be reduced.

**TEXAS**

For the control of the annual weeds listed above, apply 2-3 pounds of HYVAR® X HERBICIDE per acre. Use the lower rate for 1 to 2 year old trees and the higher rate for trees more than 2 years old. Do not apply more than 3 pounds HYVAR® X HERBICIDE per acre per year.

**U.S. (EXCEPT FLORIDA and TEXAS)**

**Trees Established for Four Years or More**

**Annual Weeds**--Including barnyardgrass (watergrass), crabgrass, crowfootgrass, Florida pusley, henbit, lambsquarters, mustard, natalgrass (red top), puncturevine, purslane, sandspur, sedge (annual), sprangletop, Texas panicum (Colorado grass), and turkey mullein, apply 2 to 4 pounds per acre. Apply anytime of the year, preferably shortly before or after weed growth begins when adequate moisture is available.

**Perennial Weeds**--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.

Make a single application per year during the period from winter to early summer; use at the following rates:

| <b>Soil Texture</b>  | <b>Pounds HYVAR® X HERBICIDE Per Acre</b> |
|----------------------|---|
| Sand, loamy sand     | 4 to 5                                    |
| Sandy loam           | 5 to 6                                    |
| Silt loam, clay loam | 6 to 8                                    |

Alternatively, except for Texas make two applications of 3 to 4 pounds HYVAR® X HERBICIDE per acre per year. In Texas and Louisiana, apply in spring and summer; in California and Arizona, apply in fall and spring.

**Note:** Partial control usually occurs with a single treatment; repeat applications are required to control perennials.

HYVAR® X HERBICIDE controls the following:

|              |                   |
|--------------|-------------------|
| Bermudagrass | All areas U.S.    |
| Johnsongrass | Texas             |
| Nutsedge     | Texas, California |

Control of perennials may be improved by cultivation prior to treatment; otherwise, avoid working the soil as long as weed control continues or else effectiveness of the treatment may be reduced.

## 2. PINEAPPLE

Treated areas may be planted to citrus or pineapple one year after last application. Do not replant to other crops within two years after last application as injury may result.

When making multiple applications, do not apply at less than 60 day intervals.

Do not harvest pineapple until 125 days after the last application.

**Hawaii and Florida**--For control of seedling weeds such as amaranthus, balsam apple, chloris, crabgrass, Floras paintbrush, foxtail, goosegrass (wiregrass), and Hialoa, apply 2 to 6 pounds per acre broadcast before the planting material begins to grow. Use the lower rates in low rainfall areas (5 to 10 inches annually) and on clean-culture fields; use the higher rates in high rainfall areas (above 10 inches annually) and for trashmulch fields.

Follow with either 2 to 4 pounds per acre as a directed interline spray as needed prior to differentiation or apply 2 pounds per acre broadcast as needed up to differentiation. Do not apply more than 10 pounds total per acre per plant crop.

For ratoon crop, apply 1 to 4 pounds per acre broadcast after harvesting plant crop but before differentiation. Do not apply more than 4 pounds total per acre per ratoon crop.

**Puerto Rico**--For control of seedling weeds such as crabgrass, goosegrass, jungle rice, pigweed, and purslane, apply 2 to 4 pounds per acre broadcast immediately after planting and before planting material begins to grow.

## II. 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.

Non-crop weed and brush control are not within the scope of the Worker Protection Standard.

Do not enter or allow others to enter the treated area until sprays have dried.

### USE RESTRICTIONS - STATE OF FLORIDA

In the state of Florida the use of HYVAR® X HERBICIDE (bromacil) is prohibited in the counties of Hardee, Highland, Polk, Orange and Lake. For Non-Agricultural Usage in all other areas of the state, do not apply more than 8 pounds per acre per year of HYVAR® X HERBICIDE. This amount corresponds to 6.4 pounds of bromacil, the active ingredient in HYVAR® X HERBICIDE. The maximum allowable use rate for bromacil is 6.4 pounds per acre per year inclusive of all bromacil formulations.

### APPLICATION INFORMATION

HYVAR® X HERBICIDE is labeled for control of undesirable vegetation for extended periods of time in non-crop areas as follows: uncultivated non-agricultural areas (such as, airports, highway, railroad and utility rights-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). Do not apply to open water (such as lakes, reservoirs, rivers, streams, creeks, salt water bays or estuaries) nor while water is present in fresh water wetlands (such as marshes, swamps, bogs or potholes) nor to salt water marshes within tidal areas nor to ditches, banks along waterways or impervious substrates, nor to areas near desirable plants where roots of these plants may extend.

Apply HYVAR® X HERBICIDE using a properly calibrated fixed-boom power sprayer. Use sufficient spray volume to provide uniform coverage of the treated area and to allow proper dispersion and suspension of the product in the spray tank. All use rates of HYVAR® X HERBICIDE are expressed for broadcast treatments. For band treatments, use proportionately less.

**Note:** Applications may also be made using a handgun sprayer. Use a spray volume of at least 40 gallons per acre to insure uniform coverage. For small areas, a hand sprayer or sprinkler may be used.

#### **APPLICATION TIMING**

Apply HYVAR® X HERBICIDE as a preemergence spray prior to or during the rainy season when weeds are actively germinating or growing. Moisture is required to move HYVAR® X HERBICIDE into the root zone of weeds for preemergence control. For best preemergence weed control, apply prior to rainfall and weed germination.

#### **APPLICATION RATES**

Apply HYVAR® X HERBICIDE at the rates indicated by weed type. When applied at lower rates, HYVAR® X HERBICIDE provides short- term control of weeds listed; when applied at higher rates, weed control is extended.

#### **WEEDS CONTROLLED**

HYVAR® X HERBICIDE effectively controls the following broadleaf weeds and grasses when applied at the rates shown.

##### **Annual Broadleaf Weeds and Grasses -- 3-6 pounds per acre**

|                      |                               |
|----------------------|-------------------------------|
| Brome, downy         | <i>Bromus tectorum</i>        |
| Cheat                | <i>Bromus secalinus</i>       |
| Crabgrass            | <i>Digitaria</i> spp.         |
| Foxtails             | <i>Setaria</i> spp.           |
| Lambsquarter, common | <i>Chenopodium album</i>      |
| Mullein, turkey      | <i>Eremocarpus setigerus</i>  |
| Oat, wild            | <i>Avena fatua</i>            |
| Puncturevine, common | <i>Tribulus terrestris</i>    |
| Ragweed, common      | <i>Ambrosia artemisifolia</i> |
| Ryegrass, Italian    | <i>Lolium multiflorum</i>     |

When applied just prior to or just after emergence of annuals, rates as low as 2 pounds per acre control many annual weeds and grass in low rainfall areas and gives short term control in higher rainfall areas.

##### **Perennial Broadleaf Weeds and Grasses -- 7-15 pounds per acre**

|                   |                                 |
|-------------------|---------------------------------|
| Bahiagrass        | <i>Paspalum notatum</i>         |
| Bermudagrass      | <i>Cynodon dactylon</i>         |
| Bluegrass         | <i>Poa</i> spp.                 |
| Brome, smooth     | <i>Bromus inermis</i>           |
| Broomsedge        | <i>Andropogon virginicus</i>    |
| Carrot, wild      | <i>Caudus carota</i>            |
| Dandelion, common | <i>Taraxacum officinale</i>     |
| Dogfennel         | <i>Eupatorium capillifolium</i> |
| Goldenrod         | <i>Solidago</i> spp.            |

|                     |                             |
|---------------------|-----------------------------|
| Johnsongrass        | <i>Sorghum halepense</i>    |
| Natalgrass (redtop) | <i>Rhynchelytrum repens</i> |
| Nutsedge            | <i>Cyperus spp.</i>         |
| Plantain            | <i>Plantago spp.</i>        |
| Purpletop           | <i>Verbena bonariensis</i>  |
| Quackgrass          | <i>Agropyron repens</i>     |

In areas with low or seasonal rainfall, rates as low as 5 pounds per acre control many perennial weeds and grasses.

Where limited rainfall (usually less than 4 inches) occurs during the active growth period, such as some areas of the West, HYVAR® X HERBICIDE usually will not provide satisfactory control of hard-to-kill, deep-rooted perennial weeds such as johnsongrass.

**NOTE:** Use the higher levels of the dosage ranges on adsorptive soils (those high in organic matter or carbon).

**Retreating**--Apply 2 to 6 pounds per acre when annual weeds and grasses reappear on sites where weed growth has been controlled. Do not apply HYVAR® X HERBICIDE at more than 15 pounds per acre per year per site.

When making multiple applications, do not apply at less than 60 day intervals.

**Small Areas**--1/4 cupful of HYVAR® X HERBICIDE per 200 sq. ft. is approximately 15 pounds per acre.

#### **BRUSH CONTROL**

To control undesirable woody plants on non-cropland areas such as RAILROAD RIGHT-OF-WAYS, STORAGE AREAS, and INDUSTRIAL PLANT SITES.

Apply in spring or summer as a broadcast or basal (spot) treatment. Do not use where marketable timber or other desirable trees or shrubs are immediately adjacent to the treated area.

**Broadcast Treatment**--Apply 7 to 15 pounds per acre to control brush such as oak, pine, sweet gum, and willow. Use the higher rates on adsorptive soils (those high in organic matter or carbon).

**Basal (Spot) Treatment**--Mix 2 1/2 pounds in 5 gals. of water and apply at the rate of 1 to 2 fl. oz. per stem 2" to 4" in basal diameter; wet base of stem to run-off.

Treatment controls woody plants such as cottonwood, hackberry, maple, oak, poplar, red bud, sweet gum, wild cherry, willow, and winged elm.

#### **SPECIAL USES**

##### **UNDER ASPHALT AND CONCRETE PAVEMENT**

#### **APPLICATION INFORMATION**

HYVAR® X HERBICIDE may be used in combination with OUST® XP HERBICIDE to control weeds under asphalt and concrete pavement, such as that used in parking lots, highway shoulders, median strips, roadways, and other industrial sites.

HYVAR® X HERBICIDE should only be used in an area that has been prepared according to good construction practices. Use sufficient water to insure uniform coverage, generally 100 gal per acre. Agitate the tank continuously to keep HYVAR® X HERBICIDE in suspension.

#### **APPLICATION TIMING**

HYVAR® X HERBICIDE should be applied immediately before paving to avoid lateral movement of the herbicide as a result of soil movement due to rainfall or mechanical means.

## APPLICATION RATES

Apply HYVAR® X HERBICIDE at 6 to 15 pounds per acre. Use a higher rate on hard to control weeds and/or for longer term weed control.

### Important Precautions--Under Asphalt Only

- Do not use HYVAR® X HERBICIDE under pavement in residential properties such as driveways, or in recreational areas, including jogging or bike paths, tennis courts, or golf cart paths.
- Desirable plants may be injured if their roots extend into treated areas or if planted in treated areas.

## TANK MIXTURES

To control a broader spectrum of weeds, or for an extended period of weed control, a tank mixture of HYVAR® X HERBICIDE at 6 to 15 pounds per acre plus OUST® HERBICIDE or OUST® XP HERBICIDE at 4 to 8 ounces per acre may be used.

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## ADDITIONAL INSTRUCTIONS FOR AG AND NON-AG USES

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### SPRAY PREPARATION

**Mixing in water** - Fill tank 1/2 full with water. Start agitation system, add HYVAR® X HERBICIDE and continue adding water. Add separately each additional component of any tank-mix while adding water. Continue agitation throughout.

**Mixing in liquid fertilizer (citrus only)** - A fertilizer solution may be used in the spray mixture. Small quantities should be tested for compatibility by the following procedures before full scale mixing.

1. Put 1 pint fertilizer solution in a quart jar.
2. Mix 2 teaspoons HYVAR® X HERBICIDE with 2 tablespoonfuls of water; mix thoroughly and add to fertilizer solution.
3. Close jar and shake well.
4. If other herbicides are used in the mixture, premix 2 teaspoonfuls of dry materials or 1 teaspoonful of liquids with 2 tablespoons of water; add to HYVAR® X HERBICIDE/ fertilizer solution mixture.
5. Close jar and shake well.
6. Watch mixture for several seconds; check again in 30 minutes.
7. If mixture does not separate, foam, gel or become lumpy, it may be used.

Provided the above procedure shows the mixture to be compatible, prepare the tank mixture as follows: add the fertilizer solution to the spray tank first, mix the required amount of HYVAR® X HERBICIDE with water to form a slurry, with the agitator running, slowly add the slurry and mix thoroughly.

**Mixing with other herbicides:** Determine the tank mixture partner(s) compatibility with HYVAR® X HERBICIDE by following the directions above. For Step 1 above, use 1 pint of water instead of the liquid fertilizer. Provided the above procedure shows the mixture to be compatible, HYVAR® X HERBICIDE may be used in this tank mixture.

### 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.

## **MANDATORY SPRAY DRIFT MANAGEMENT**

### Ground Boom Applications:

- User must only apply with nozzle height recommended by the manufacturer, but no more than 4 feet above the ground or crop canopy.
- Applicators are required to use coarse or coarser droplet size (ASABE S572.1).
- Do not apply when wind speeds exceed 10 miles per hour at the application site. Do not apply when wind speeds exceed 15 miles per hour at the application site for pineapple fields in Hawaii and Puerto Rico.
- Do not apply during temperature inversions.

### Boomless Ground Applications:

- Applicators are required to use coarse or coarser droplet size (ASABE S572.1).
- Do not apply when wind speeds exceed 10 miles per hour at the application site.
- Do not apply during temperature inversions.

## **SPRAY DRIFT ADVISORIES**

THE APPLICATOR IS RESPONSIBLE FOR AVOIDING OFF-SITE SPRAY DRIFT.

BE AWARE OF NEARBY NON-TARGET SITES AND ENVIRONMENTAL CONDITIONS.

## **IMPORTANCE OF DROPLET SIZE**

An effective way to reduce drift potential is to apply large droplets. Use the largest droplets that provide target pest control. While applying larger droplets will reduce spray drift, the potential for drift will be greater if applications are made improperly or under unfavorable environmental conditions.

### **Controlling Droplet Size - Ground Boom**

- **Volume** - Increasing the spray volume so that larger droplets are produced will reduce spray drift. Use the highest practical spray volume is needed, consider using a nozzle with a higher flow rate.
- **Pressure** - Use the lowest spray pressure recommended for the nozzle to produce the target spray volume and droplet size.
- **Spray Nozzle** - Use a nozzle type that is designed for the intended application. Consider using nozzles designed to reduce drift.

## **BOOM HEIGHT**

For ground equipment, the boom should remain level with the ground but high enough for proper spray coverage and have minimal bounce.

## **SHIELDED SPRAYERS**

Shielding the boom or individual nozzles can reduce spray drift. Consider using shielded sprayers. Verify that the shields are not interfering with uniform deposition of the spray on the target area.

## **TEMPERATURE AND HUMIDITY**

When making applications in hot and dry conditions, use larger droplets to reduce effects of evaporation.

## **TEMPERATURE INVERSIONS**

Drift potential is high during a surface temperature inversion. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. The presence of an inversion can be indicated by ground fog; however, or by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing. Avoid applications during temperature inversions.

## **WIND**

Drift potential generally increases with wind speed. AVOID APPLICATIONS DURING GUSTY OR WINDLESS CONDITIONS.

Applicators need to be familiar with local wind patterns and terrain that could affect spray drift.

**Boom-less Ground Applications:** Setting nozzles at the lowest effective height will help to reduce the potential for spray drift.

## **SENSITIVE AREAS**

The pesticide should only be applied when the potential for drift to adjacent sensitive areas (e.g., residential areas, bodies of water, known habitat for threatened or endangered species, non-target crops) is minimal (e.g., when wind is blowing away from the sensitive areas).

## **SPRAY TANK CLEAN OUT**

Thoroughly clean all traces of HYVAR® X HERBICIDE 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.

## **STORAGE AND DISPOSAL**

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

**PESTICIDE STORAGE:** Store product in original container only. Store in a cool, dry place.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product must 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, for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances. 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, for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances. 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. Clean container promptly after emptying the contents from this container into application equipment or mix tank and before final disposal using the following pressure rinsing procedure. Insert a lance fitted with a suitable tank cleaning nozzle into the container and ensure that the water spray thoroughly covers the top, bottom and all sides inside the container. The nozzle manufacturer generally provides instructions for the appropriate spray pressure, spray duration, and/or spray volume. If the manufacturer's instructions are not available, pressure rinse the container for at least 60 seconds using a minimum pressure of 30 PSI with a minimum rinse volume of 10% of the container volume. Drain, pour or pump rinsate into application equipment or rinsate collection system. Repeat this pressure rinsing procedure two more times. Then, for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. 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. Do not burn, unless allowed by state and local ordinances.

**Refillable Fiber Drums With Liners:**

Refillable container (fiber drum only). Refilling Fiber Drum: Refill this fiber drum with HYVAR® X HERBICIDE containing bromacil 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. Do not burn, unless allowed by state and local ordinances. 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. Do not burn, unless allowed by state and local ordinances.

**All Other Refillable Containers:**

Refillable container. Refilling Container: Refill this container with HYVAR® X HERBICIDE containing bromacil 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. If damage is found, do not use the container, contact AMVAC Chemical Corporation at the number below for instructions. Check for leaks after refilling and before transporting. If leaks are found, do not reuse or transport container, contact AMVAC Chemical Corporation at the number below for instructions. 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, use the following pressure rinsing procedure. Insert a lance fitted with a suitable tank cleaning nozzle into the container and ensure that the water spray thoroughly covers the top, bottom, and all sides inside the container. The nozzle manufacturer generally provides instructions for the appropriate spray pressure, spray duration and/or

spray volume. If the manufacturer's instructions are not available, pressure rinse the container for at least 60 seconds using a minimum pressure of 30 PSI with a minimum rinse volume of 10% of the container volume. Drain, pour, or pump rinsate into application equipment or rinsate collection system. Repeat this pressure rinsing procedure two more times. Then, for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances. 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 Foil 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 Chemtrec® at 1-800-424-9300, day or night.

**LIMITED WARRANTY AND DISCLAIMER**

The manufacturer warrants (a) that this product conforms to the chemical description on the label; and (b) that the directions, warnings, and other statements on this label are based upon responsible experts' evaluations of reasonable tests of effectiveness, of toxicity to laboratory animals and to plants and residues on food crops, and upon reports of field experience. Tests have not been made on all varieties of food crops and plants, or in all states or under all conditions. **THIS WARRANTY DOES NOT EXTEND TO THE USE OF THIS PRODUCT CONTRARY TO LABEL INSTRUCTIONS, OR UNDER CONDITIONS NOT REASONABLY FORESEEABLE.**

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