



## 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-L HERBICIDE  
EPA Registration Number: 5481-634  
Case Number: 482850  
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

**ACCEPTED**

**01/07/2026**

Under the Federal Insecticide, Fungicide  
and Rodenticide Act as amended, for the  
pesticide registered under  
EPA Reg. No.  
**5481-634**

**BROMACIL**

**GROUP**

**5**

**HERBICIDE**

# **HYVAR® X-L HERBICIDE**

**Water Soluble Liquid**

**Active Ingredient**

**By Weight**

\*Lithium salt of bromacil (5-bromo-3-sec-butyl-6-methyluracil) ..... 21.9%

**Other Ingredients** ..... 78.1%

**TOTAL** ..... 100%

\* Equivalent to 21.4% Bromacil. 1 Gallon Contains 2 Pounds Bromacil

EPA Reg. No.: 5481-634

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

Nonrefillable Container 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 a 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: CHEMREC® ..... 1-800-424-9300

For product information, call AMVAC® ..... 1-888-462-6822



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 (such as butyl rubber, neoprene rubber, or nitrile rubber) all >14 mils.

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.
- Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into 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.

**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.

### PHYSICAL OR CHEMICAL HAZARDS

Combustible. Do not use or store near heat or open flame. Keep container closed when not in use.

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## DIRECTIONS FOR USE

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

HYVAR® X-L HERBICIDE must be used only in accordance with instructions on this label, or in supplemental BAYER CROPSCIENCE LP publications.

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.

**Entry Restrictions** - Do not enter or allow others to enter the treated area until sprays have dried.

Aerial application of this product is prohibited.

#### **USE RESTRICTIONS - STATE OF FLORIDA**

In the state of Florida the use of HYVAR® X-L 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 3.2 gallons per acre per year of HYVAR® X-L HERBICIDE. This amount corresponds to 6.4 pounds of bromacil, the active ingredient in HYVAR® X-L HERBICIDE. The maximum allowable use rate for bromacil is 6.4 pounds per acre per year inclusive of all bromacil formulations.

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#### **PRODUCT INFORMATION**

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HYVAR® X-L HERBICIDE is a water soluble liquid to be mixed in water and applied as a spray for weed control in non-crop and industrial sites. It may also be applied either undiluted or diluted with water for the control of various species of brush on industrial sites. HYVAR® X-L HERBICIDE is an effective general herbicide providing residual control of many annual weeds at low rates and perennial weeds and brush at higher rates. It is particularly useful for control of perennial grasses.

After mixing with water HYVAR® X-L HERBICIDE is non-flammable, non-volatile, and non-corrosive to metals, except aluminum. Use with aluminum spray nozzles or equipment is not recommended.

#### **SPRAY PREPARATION**

Before spraying, calibrate equipment to determine the quantity of water necessary to uniformly and thoroughly cover the vegetation and soil in a measured area to be treated.

Add the proper amount of HYVAR® X-L HERBICIDE into a spray tank as it is being filled with the amount of water to be used. Continue filling the tank and agitate. After HYVAR® X-L HERBICIDE has been thoroughly mixed within the spray tank, agitation of the spray solution is not required. Where applicable, add surfactant and/or anti-foam agent as the last ingredient in the tank.

#### **ENVIRONMENTAL CONDITIONS AND BIOLOGICAL ACTIVITY**

HYVAR® X-L HERBICIDE is absorbed through the plant roots. Effects are generally slow to appear and may not become apparent until the chemical has been carried into the root zone of the weeds by rainfall or irrigation. Moisture is required to activate HYVAR® X-L HERBICIDE in the soil. Best weed control results are obtained when the soil is moist at application and rainfall or irrigation occurs after application. Where limited rainfall occurs during the period of active weed growth, HYVAR® X-L HERBICIDE usually will not provide satisfactory control of hard to kill, deep-rooted perennial weeds, such as, Johnsongrass.

Degree and duration of weed control depend on: rate used, weed spectrum, growing conditions at and following time of treatment, soil texture, organic matter, soil moisture at the time of treatment and precipitation following treatment.

Where a rate range is shown, use the higher range of rates on hard-to-control species, fine textured soils and soils high in organic matter or carbon. Use the lower range of rates on annual weeds and other susceptible species, course textured soils and soils low in organic matter or carbon. Refer to the specific use sections of this label for rate ranges.

#### **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-L 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-L 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**

AMVAC Chemical Corporation recommends the use of Integrated Pest Management (IPM) programs to control pests. This product may be used as part of an Integrated Pest Management (IPM) program which can include biological, cultural, and genetic practices aimed at preventing economic pest damage. Application of this product should be based on IPM principles and practices including 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 or site systems in your area.

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#### **NON-CROP (INDUSTRIAL) SITES**

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#### **APPLICATION INFORMATION**

HYVAR® X-L HERBICIDE is recommended for use for general weed control on non-crop industrial sites 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 with a fixed-boom or boom-less power sprayer properly calibrated at a constant speed and rate of delivery. Use sufficient spray volume (a minimum of 25 gallons per acre) to provide thorough and uniform coverage of the area to be treated. Spray booms should be shut off while starting, turning, slowing or stopping to avoid exceeding the prescribed application rates.

Applications may also be made with a handgun sprayer. For small areas, a hand or backpack sprayer may be used. Use sufficient spray volume to insure uniform coverage of the area to be treated.

#### **Application Timing**

Apply as a preemergence or early postemergence spray when weeds are actively germinating or growing, or prior to this period. Rainfall following application is required to activate HYVAR® X-L HERBICIDE.

#### **Application Rates**

Apply HYVAR® X-L HERBICIDE at the rates indicated in the table below. Use the lower rates for short-term control or in areas with less than 20 inches of annual rainfall. Use the higher rates for longer-term control or in areas with greater than 20 inches of annual rainfall. Application rates may vary with soil texture and organic matter content. Use the lower rates on coarse textured soils, such as loamy sand and sandy loam. Use an intermediate rate on medium textured soils, such as loam, silt loam, silt, clay loam, and sandy clay loam and the higher rates on fine textured soils, such as silty clay loam, clay loam, sandy clay, silty clay, and clay. For soils low in organic matter or carbon use the lower rates and for soils with higher levels of organic matter or carbon use the higher rates.

Lower rates may be used in areas where it is desirable to maintain control of weeds that have been controlled with previous applications of residual herbicides. Use the higher rate as an initial treatment in areas where weeds have not been controlled with previous herbicide applications or in areas where perennial weed pests have become established.

#### **Weeds Controlled**

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

##### **Annuals—3/4 to 3 gallons per acre**

Bromegrass  
Cheatgrass  
Crabgrass  
Foxtail  
Lambsquarters  
Orchard grass  
Puncturevine  
Ragweed  
Ryegrass  
Turkey mullein  
Wild Oats

##### **Perennials—3 to 6 gallons per acre**

Aster  
Bahiagrass  
Blue grass  
Broomsedge  
Dandelion  
Dog fennel

Goldenrod  
Plantain  
Purpletop  
Quackgrass  
Redtop  
Smooth brome  
Wild carrot

In areas of high rainfall and lengthy growing seasons repeat applications of  $\frac{3}{4}$  to 3 gallons per acre of HYVAR® X-L HERBICIDE may be needed to maintain season-long control. Make the applications when weeds and grasses begin to reappear on the previously treated areas.

Do not apply more than 6 gallons per acre per year of HYVAR® X-L HERBICIDE.

#### **BRUSH CONTROL APPLICATION INFORMATION**

HYVAR® X-L HERBICIDE is recommended for the control of undesirable woody plants in non-crop areas such as railroad rights-of-way, storage areas, industrial plant sites, and similar areas.

#### **Broadcast Applications**

Apply HYVAR® X-L HERBICIDE as a coarse spray using ground equipment only. Use enough water for thorough coverage, usually a minimum of 25 gallons per acre.

#### **Basal (Soil) Applications**

**Undiluted**—Apply HYVAR® X-L HERBICIDE undiluted with an exact delivery hand gun applicator. This equipment delivers a thin stream of a predetermined volume when triggered. Apply HYVAR® X-L HERBICIDE at the rate of 5 to 10 milliliters for every 2 to 4 inches of basal stem diameter. Direct the treatment to the soil at the base of the brush. When treating large stems and more than one delivery of HYVAR® X-L HERBICIDE is needed per stem, make applications on opposite sides of the stem.

**Diluted**—Mix 1 gallon of HYVAR® X-L HERBICIDE in 5 gallons of water. Apply at the rate of 1 to 2 ounces of solution for every 2 to 4 inches of basal stem diameter.

#### **Application Timing**

Apply HYVAR® X-L HERBICIDE from late winter through summer during the period of active growth or prior to this period. Rainfall following application is required to activate HYVAR® X-L HERBICIDE.

#### **Application Rates**

Use the higher rate range of HYVAR® X-L HERBICIDE for harder to control woody plants and/or in areas where high woody plant infestation levels are known to occur.

When applied at the low rate, HYVAR® X-L HERBICIDE provides short-term control of the listed woody plants; when applied at the higher rates, control of woody plants is extended.

#### **Woody Plants Controlled— $2 \frac{3}{4}$ to 6 gallons per acre**

Cottonwood  
Elms, (American, winged)  
Hackberry  
Maple  
Oaks  
Pines  
Poplar  
Red bud  
Sumac  
Sweetgum

## Willow

Do not apply more than 6 gallons of HYVAR® X-L HERBICIDE per acre per year.

### **SPECIAL USES APPLICATION INFORMATION**

In addition to the sites listed previously, HYVAR® X-L HERBICIDE may also be applied under pond liners and under asphalt and concrete such as highway shoulders and median strips, except in California.

HYVAR® X-L HERBICIDE should only be used in areas that have been prepared according to good construction practices. Use sufficient water to ensure uniform coverage, generally 100 gallons per acre.

Pond liner application (10 to 12 gallons/acre rates) workers may treat a maximum of 10 acres per day.

### **Application Timing**

On moist soils, apply HYVAR® X-L HERBICIDE after final grading and immediately before laying the surfacing material.

If moisture is not present, incorporation of HYVAR® X-L HERBICIDE is needed for activation. Incorporate to a depth of 4 to 6 inches after application using a rotary tiller or disc. Rainfall or irrigation of 2 inches will also provide uniform incorporation.

### **Application Rates**

Use the higher rate range of HYVAR® X-L HERBICIDE for harder to control weeds and/or in areas where high weed infestation levels are known to occur.

When applied at the low rate, HYVAR® X-L HERBICIDE provides short-term control of the listed weeds; when applied at the higher rates, weed control is extended.

### **Weeds Controlled**

When applied as directed HYVAR® X-L HERBICIDE effectively controls the weeds and grasses in the following table.

#### **Annuals—2 ½ to 4 gallons per acre**

Cheat  
Crabgrass  
Downy brome  
Foxtail  
Lambsquarters  
Puncturevine  
Ragweed  
Ryegrass  
Turkey mullein  
Wild oats

#### **Perennials—4 to 6 gallons per acre**

Bahiagrass  
Broomsedge  
Dandelion  
Dogfennel  
Goldenrod  
Plantain  
Purpletop  
Quackgrass  
Redtop  
Smooth brome  
Wild carrot

**Perennials—10 to 12 gallons per acre\***

Bermudagrass  
Bouncingbet  
Bracken fern  
Dallisgrass  
Dogbane  
Horsetail  
Johnsongrass  
Nutsedge  
Saltgrass  
Vaseygrass

\*This use rate is limited to application under pond liners.

**RESTRICTIONS AND USE PRECAUTIONS**

- Injury to or loss of desirable trees or other plants may result if HYVAR® X-L HERBICIDE is applied or if equipment is drained or flushed on or near desirable trees or other plants, 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 HYVAR® X-L HERBICIDE on frozen soils.
- Do not use HYVAR® X-L HERBICIDE in residential areas or around homes in areas such as lawns, driveways or parking lots. Do not use HYVAR® X-L HERBICIDE in recreational areas such as bike, jogging or golf cart paths, tennis courts, or in areas where landscape plantings could be anticipated.
- Do not apply this product through any type of irrigation system.
- Do not use in Kern County, California.

**SPRAYER CLEANUP**

Thoroughly clean all mixing and spray equipment following applications of HYVAR® X-L HERBICIDE as follows:

1. Drain tank; thoroughly rinse spray tanks, boom, and hoses with clean water.
2. Fill the tank with clean water and 1 gallon of household ammonia (contains 3% active) for every 100 gallons of water. Flush the hoses, boom, and nozzles with the cleaning solution. Then add more water to completely fill the tank. Circulate the cleaning solution through the tank and hoses for at least 15 min. Flush the hoses, boom, and nozzles again with the cleaning solution, and then drain the tank. Equivalent amounts of an alternate-strength ammonia solution or a commercial cleaner can be used in the cleanout procedure. If a commercial cleaner is used, carefully read and follow the individual cleaner instructions.
3. Remove the nozzles and screens and clean separately in a bucket containing cleaning agent and water.
4. Repeat step 2.
5. Rinse the tank, boom, and hoses with clean water.
6. Dispose of the rinsate on a labeled site or at an approved waste disposal facility. If a commercial cleaner is used follow the directions for rinsate disposal on the label.

**Notes:**

1. **Caution:** Do not use chlorine bleach with ammonia as dangerous gases will form. Do not clean equipment in an enclosed area.
2. Steam-cleaning aerial spray tanks is recommended before performing the above cleanout procedure to facilitate the removal of any caked deposits.
3. When HYVAR® X-L HERBICIDE is tank mixed with other pesticides, all required cleanout procedures should be examined and the most rigorous procedure should be followed.

**SPRAY DRIFT MANAGEMENT**

The interaction of many equipment and water-related factors determines the potential for spray drift. The applicator is responsible for considering all these factors when making application decisions.

AVOIDING SPRAY DRIFT IS THE RESPONSIBILITY OF THE APPLICATOR.

#### 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.
- 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.

##### 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 areas) is minimal (e.g, when wind is blowing away from the sensitive areas).

## 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:** Waste 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 Rigid Plastic and Metal Containers (Capacity Equal to or Less Than 5 Gallons):

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 and drain for 10 seconds after the flow begins to drip. 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 Rigid Plastic and Metal Containers (Capacity Greater Than 5 Gallons):

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 Rigid 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.

**All Refillable Containers:** Refillable container. Refilling Container: Refill this container with HYVAR® X-L HERBICIDE containing lithium salt of bromacil (5- bromo-3-sec-butyl-6-methyluracil) 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 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. Do not transport if 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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