



**OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION**

WASHINGTON, D.C. 20460

January 28, 2026

Michael Kellogg  
Agent  
Alligare, LLC  
c/o Pyxis Regulatory Consulting Inc.  
4110 136th St. Ct. NW  
Gig Harbor, WA 98332

Subject: Label Amendment - Registration Review Mitigation for Bromacil  
Product Name: HYVAR® X-L IVM Herbicide  
EPA Registration Number: 81927-77  
Case Number: 479004  
Application Dates: 10/16/2020

Dear Michael Kellogg:

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,

A handwritten signature in dark ink that reads "Marianne A. Walters". The signature is written in a cursive, flowing style.

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

ENCLOSURE: Stamped label

[Note to reviewer: [Text] in brackets denotes optional text].

[Note to reviewer: {Text} in braces denotes where in the final label text will appear].

**{[BOOKLET FRONT PANEL LANGUAGE]}**

**BROMACIL**

**GROUP**

**5**

**HERBICIDE**

## HYVAR<sup>®</sup> X-L IVM 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:** ..... 100.0%

\*Equivalent to 21.4% Bromacil.

1 Gallon Hyvar X-L IVM Herbicide contains 2 lbs. Bromacil.

**ACCEPTED**

1/28/2026

Under the Federal Insecticide, Fungicide  
and Rodenticide Act as amended, for the  
pesticide registered under  
EPA Reg. No. 81927-77

### 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.)

FIRST AID	
<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>
HOT LINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-800-424-9300 for emergency medical treatment information.	

[See] [inside] [attached] [label] [booklet] [for] [First Aid][,] [additional] [Precautionary Statements][,] [and] [Directions for Use] [including] [and] [Storage and Disposal] [instructions].

**EPA Reg. No. 81927-77**

**EPA Est. No.**

**Net Contents:**

**PRECAUTIONARY STATEMENTS**  
**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 barrier laminate, butyl rubber ≥14 mils, nitrile rubber ≥14 mils, neoprene rubber ≥14 mils, polyvinyl chloride ≥14 mils or viton ≥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 or aircraft 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 thoroughly after handling and 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.

## **DIRECTIONS FOR USE**

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

Hyvar® X-L IVM Herbicide must be used only in accordance with instructions on this label.

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.

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

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

### **PRODUCT INFORMATION**

Hyvar X-L IVM 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 IVM 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 IVM Herbicide is non-flammable, non-volatile, and non-corrosive to metals, except aluminum. Use with aluminum spray nozzles or equipment is not advised.

**Restriction:** Aerial application of this product is prohibited.

### **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 IVM 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 IVM 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 IVM 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 IVM 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 IVM 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, coarse 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**

For resistance management, Hyvar X-L IVM Herbicide is a Group 5 herbicide. Any weed population may contain or develop plants naturally resistant to Hyvar X-L IVM Herbicide and other Group 5 herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same use site. Appropriate resistance-management strategies should be followed.

To delay herbicide resistance take one or more of the following steps:

- Avoid the consecutive use of Hyvar X-L IVM Herbicide or other target site of action Group 5 herbicides that might have a similar target site of action, on the same weed species.
- Use tank mixtures or premixes with herbicides from different target site of action Groups as long as the involved products are all registered for the same use, have different sites of action and are both effective at the tank mix or prepack rate on the weed(s) of concern. It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.
- Base herbicide use on a comprehensive Integrated Pest Management (IPM) program.
- Scout fields prior to application to identify the weed species present and their growth state to determine if the intended application will be effective.
- Scout fields after application to verify that the treatment was effective and to monitor weed populations for early signs of resistance development.
- Contact your local extension specialist, certified crop advisors and/or manufacturer for herbicide resistance management and/or integrated weed management recommendations for specific crops and resistant weed biotypes.

Suspected herbicide-resistant weeds may be identified by these indicators:

- Failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds;
- A spreading patch of non-controlled plants of a particular weed species; and
- Surviving plants mixed with controlled individuals of the same species.

Report any incidence of non-performance of this product against a particular weed species to your Alligare, LLC retailer, representative or call 888-255-4427. If resistance is suspected, treat weed escapes with an herbicide having a different mechanism of action and/or use non-chemicals means to remove escapes, as practical, with the goal of preventing further seed production.

## **INTEGRATED PEST MANAGEMENT**

Alligare, LLC 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.

### **PRECAUTION**

Injury to or loss of desirable trees or other plants may result if Hyvar X-L IVM 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.

### **RESTRICTIONS:**

- Do not use Hyvar X-L IVM Herbicide on frozen soils.
- Do not use Hyvar X-L IVM Herbicide in residential areas or around homes in areas such as lawns, driveways or parking lots.
- Do not use Hyvar X-L IVM Herbicide in recreational areas such as bike, jogging or golf cart paths, tennis courts, in or around homes, or in areas where landscape plantings could be anticipated.
- Do not apply this product through any type of irrigation system.
- Aerial application of this product is prohibited.
- Do not use in Kern County, California.

### **SPRAYER CLEANUP**

Thoroughly clean all mixing and spray equipment following applications of Hyvar X-L IVM 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.

**Restriction:** Do not use chlorine bleach with ammonia as dangerous gases will form. Do not clean equipment in an enclosed area.

**Notes:**

1. Steam-clean aerial spray tanks before performing the above cleanout procedure to facilitate the removal of any caked deposits.
2. When Hyvar X-L IVM Herbicide is tank mixed with other pesticides, examine all required cleanout procedures and the follow the most rigorous procedure.

**MANDATORY SPRAY DRIFT MANAGEMENT****Ground Boom Applications:**

- Users must only apply with nozzle height recommend by the manufacturer, but no more than 4 feet above the ground or crop canopy.
- Applicators are required to use a coarse or coarser spray 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.

**Boom-less Ground Applications:**

- Applicators are required to use a coarse or coarser droplet size (ASABE S572.1) for all applications.
- 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 spray drift 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 for the application. If a greater 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 spray nozzle that is designed for the intended application. Consider using nozzles designed to reduce drift.

**BOOM HEIGHT - Ground Boom**

For ground equipment, the boom should remain level with the crop 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 the 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 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 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 WIND 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.

## NON-CROP (INDUSTRIAL) SITES

### APPLICATION INFORMATION

Use Hyvar X-L IVM Herbicide for general weed control on non-crop industrial sites as follows: uncultivated non-agricultural areas (including, 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, including, lumberyards, pipeline and tank farms).

Apply with a fixed-boom or boom-less power sprayer properly calibrated at a constant speed and rate of delivery. Use a minimum of 25 gallons per acre to provide thorough and uniform coverage of the area to be treated. Shut off spray booms 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.

**Restriction:** 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.

### 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 IVM Herbicide.

## **Application Rates**

Apply Hyvar X-L IVM 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 IVM Herbicide effectively controls the following weeds and grasses when applied at the rates shown.

### **Annuals—3/4 to 3 gallons product (1.5 to 6 lbs. a.i.) per acre**

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

### **Perennials—3 to 6 gallons product (6 to 12 lbs. a.i.) per acre**

Aster  
Bahagrass  
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 3/4 to 3 gallons per acre of Hyvar X-L IVM Herbicide (1.5 to 6 lbs. a.i.) within the maximum use rate may be needed to maintain season-long control. Make the applications when weeds and grasses begin to reappear on the previously treated areas.

**Restriction:** Do not apply more than 6 gallons per acre per year of Hyvar X-L IVM Herbicide (12 lbs. a.i.).

## **BRUSH CONTROL**

### **APPLICATION INFORMATION**

Use Hyvar X-L IVM Herbicide for the control of undesirable woody plants in non-crop areas including railroad rights-of-way, storage areas, industrial plant sites, and similar areas.

#### **Broadcast Applications**

Apply Hyvar X-L IVM Herbicide as a coarse spray using ground equipment only. Use a minimum of 25 gallons per acre of water.

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

**Undiluted**—Apply Hyvar X-L IVM 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 IVM 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 IVM Herbicide is needed per stem, make applications on opposite sides of the stem.

**Diluted**—Mix 1 gallon of Hyvar X-L IVM Herbicide (2 lbs. a.i.) 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 IVM 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 IVM Herbicide.

#### **Application Rates**

Use the higher rate range of Hyvar X-L IVM 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 IVM 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 ¾ to 6 gallons product (5.5 to 12 lbs. a.i.) per acre**

Cottonwood  
Elms, (American, winged)  
Hackberry  
Maple  
Oaks  
Pines  
Poplar

Red bud  
Sumac  
Sweetgum  
Willow

**Restriction:** Do not apply more than 6 gallons of Hyvar X-L IVM Herbicide (12 lbs. a.i.) per acre per year.

## **SPECIAL USES**

### **APPLICATION INFORMATION**

In addition to the sites listed previously, Hyvar X-L IVM Herbicide may also be applied under pond liners and under asphalt and concrete including highway shoulders and median strips, except in California.

Apply Hyvar X-L IVM Herbicide 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 product/acre rates; 20 to 24 lbs. a.i./acre) workers may treat a maximum of 5 acres per day.

### **Application Timing**

On moist soils, apply Hyvar X-L IVM Herbicide after final grading and immediately before laying the surfacing material.

If moisture is not present, incorporation of Hyvar X-L IVM 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 IVM 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 IVM 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 IVM Herbicide effectively controls the weeds and grasses in the following table.

#### **Annuals—2 ½ to 4 gallons product (5 to 8 lbs. a.i.) per acre**

Cheat  
Crabgrass  
Downy brome  
Foxtail  
Lambsquarters  
Puncturevine  
Ragweed  
Ryegrass  
Turkey mullein

Wild oats

**Perennials—4 to 6 gallons product (8 to 12 lbs. a.i.) per acre**

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

**Perennials—10 to 12 gallons product (20 to 24 lbs. a.i.) per acre\***

Bermudagrass  
Bouncingbet  
Bracken fern  
Dallisgrass  
Dogbane  
Horsetail  
Johnsongrass  
Nutsedge  
Saltgrass  
Vaseygrass

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

**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.

**[Nonrefillable containers 5 gallons or less:]**

**CONTAINER HANDLING:** Nonrefillable container. Do not reuse or refill this container. Triple rinse or pressure 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. **Pressure rinse** as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Then offer for recycling if available

or puncture and dispose of in a sanitary landfill, or by other procedures allowed by state and local authorities.

**[Nonrefillable containers 5 gallons or larger:]**

**CONTAINER HANDLING:** Nonrefillable container. Do not reuse or refill this container.

Triple rinse or pressure 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. **Pressure rinse** as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by other procedures allowed by state and local authorities.

**[Refillable containers 5 gallons or larger:]**

**CONTAINER HANDLING:** Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose.

Cleaning the container before final disposal is the responsibility of the person disposing of the container.

Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from the container into application equipment or a mix tank. Fill the container about 10% full with water and, if possible, spray all sides while adding water. If practical, agitate vigorously or, alternatively, recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by other procedures allowed by state and local authorities.

**CONDITION OF SALE AND LIMITATION OF WARRANTY AND LIABILITY**

To the extent consistent with applicable law, upon purchase or use of this product, purchaser and user agree to the following terms:

**Warranty:** Alligare, LLC (the Company) warrants that this product conforms to the chemical description on the label in all material respects and is reasonably fit for the purpose referred to in the directions for use, subject to the exceptions noted below, which are beyond the Company's control. To the extent consistent with applicable law, the Company makes no other representation or warranty, express or implied, concerning the product, including no implied warranty of merchantability or fitness for a particular purpose. To the extent consistent with applicable law, no such warranty shall be implied by law, and no agent or representative is authorized to make any such warranty on the Company's behalf.

**Terms of Sale:** The Company's directions for use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, and the manner of use or application (including failure to adhere to label directions), all of which are beyond the Company's control. To the extent consistent with applicable law, all such risks are assumed by the user.

**Limitation of Liability:** To the extent consistent with applicable law, the exclusive remedy against the Company for any cause of action relating to the handling or use of this product is a claim for damages, and in no event shall damages or any other recovery of any kind exceed the price of the product which caused the alleged loss, damage, injury or other claim. To the extent consistent with applicable law, under no circumstances shall the Company be liable for any special, indirect, incidental or consequential damages of any kind, including loss of profits or income. Some states do not allow the exclusion or limitation of incidental or consequential damages.

The Company and the seller offer this product, and the purchaser and user accept this product, subject to the foregoing warranty, terms of sale and limitation of liability, which may be varied or modified only by an agreement in writing signed on behalf of the Company by an authorized representative.

[Hyvar® is a registered trademark of Amvac Chemical Corporation.]

[EPA approval date]

**Manufactured for:**

Alligare, LLC  
1565 5<sup>th</sup> Avenue  
Opelika, AL 36801

# {LANGUAGE ON LABEL AFFIXED TO CONTAINER}

## HYVAR® X-L IVM 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:..... 100.0%

\*Equivalent to 21.4% Bromacil.

1 Gallon Hyvar X-L IVM Herbicide contains 2 lbs. Bromacil.

## 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.)

FIRST AID	
<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>
HOT LINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-800-424-9300 for emergency medical treatment information.	

### PRECAUTIONARY STATEMENTS 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.

## 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.

**[Nonrefillable containers 5 gallons or less:]**

**CONTAINER HANDLING:** Nonrefillable container. Do not reuse or refill this container. Triple rinse or pressure 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. **Pressure rinse** as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by other procedures allowed by state and local authorities.

**[Nonrefillable containers 5 gallons or larger:]**

**CONTAINER HANDLING:** Nonrefillable container. Do not reuse or refill this container.

Triple rinse or pressure 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. **Pressure rinse** as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by other procedures allowed by state and local authorities.

**[Refillable containers 5 gallons or larger:]**

**CONTAINER HANDLING:** Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container.

Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from the container into application equipment or a mix tank. Fill the container about 10% full with water and, if possible, spray all sides while adding water. If practical, agitate vigorously or, alternatively, recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by other procedures allowed by state and local authorities.

[See] [inside] [attached] [label] [booklet] [for] [First Aid], [additional] [Precautionary Statements], [and] [Directions for Use] [including] [and] [Storage and Disposal] [instructions].

**EPA Reg. No. 81927-77**

**EPA Est. No.**

**Manufactured for:**

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Opelika, AL 36801

**Net Contents:**