



U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs  
Registration Division (7505T)  
1200 Pennsylvania Ave., N.W.  
Washington, D.C. 20460

EPA Reg. Number:

100-1745

Date of Issuance:

8/27/25

NOTICE OF PESTICIDE:

☒ Registration  
☐ Reregistration  
(under FIFRA, as amended)

Term of Issuance:

Unconditional

Name of Pesticide Product:

Primo HiLo

Name and Address of Registrant (include ZIP Code):

Syngenta Crop Protection, LLC  
P. O. Box 18300  
Greensboro, NC 27419

**Note:** Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA).

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is unconditionally registered in accordance with FIFRA section 3(c)(5) provided that you:

1. Submit and/or cite all data required for registration/registration review of your product when the Agency requires all registrants of similar products to submit such data.
2. Submit one copy of the final printed label for the record before you release the product for shipment.

*Continues page 2*

Signature of Approving Official:

Mindy Ondish, Product Manager 23  
Herbicide Branch, Registration Division (7505T)

Date:

8/27/25

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 FIFRA 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) lists 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.

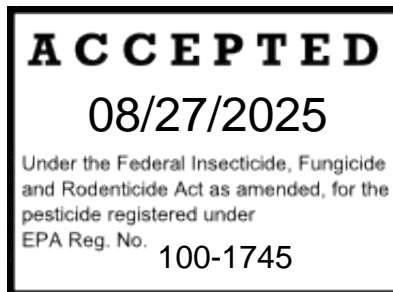
If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records.

The record for this product currently contains the following CSF:

- Basic CSF dated 11/10/2023

If you have any questions, please contact Endia Blunt at [blunt.endia@epa.gov](mailto:blunt.endia@epa.gov) or at 202-566-2505.

Enclosure



[Master label]

**Primo HiLo®**

**Plant Growth Regulator**

For managing turfgrass growth, improving quality and stress tolerance, and edging of warm- and cool-season turfgrasses in residential and commercial lawns, golf courses, sod farms, sports fields, cemeteries, and similar areas

**Active Ingredient:**

Trinexapac-ethyl\*:.....23.0%

Other Ingredients:.....77.0%

Total:.....100.0%

\*CAS No. 95266-40-3

Primo HiLo is an emulsifiable concentrate (EC) formulation containing 2.0 lb of trinexapac-ethyl per gallon.

**KEEP OUT OF REACH OF CHILDREN.**

**CAUTION / PRECAUCIÓN**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.  
(If you do not understand the label, find someone to explain it to you in detail.)

See additional precautionary statements and directions for use inside booklet.

EPA Reg. No. 100-1745

EPA Est.

Net Contents

[Batch Code: \_\_\_\_\_] (For nonrefillables only.)

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## 1.0 FIRST AID

FIRST AID
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.
<b>SYNGENTA HOTLINE NUMBER</b> For 24-Hour Medical Emergency Assistance (Human or Animal) or Chemical Emergency Assistance (Spill, Leak, Fire, or Accident), Call <b>1-800-888-8372</b>

## PRECAUTIONARY STATEMENTS

### 2.0 PRECAUTIONARY STATEMENTS

#### 2.1 Hazards to Humans and Domestic Animals

##### CAUTION / PRECAUCIÓN

Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

#### 2.2 Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks

#### 2.3 User Safety Requirements

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.

#### 2.4 User Safety Recommendations

##### User Safety Recommendations

Users should:

- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Wash contaminated clothing before reuse.

- Remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing.

## 2.5 Environmental Hazards

For terrestrial uses: Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high-water mark. Do not contaminate water when disposing of equipment washwater or rinsate. Do not apply when weather conditions favor drift from treated areas. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. See the *Spray Drift Management* section for further instructions on avoiding drift.

## 2.6 Physical or Chemical Hazards

Do not mix with or allow contact with oxidizing agents. Hazardous chemical reaction may occur.

# DIRECTIONS FOR USE

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

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your state or tribe, consult the agency responsible for pesticide regulation.

**FAILURE TO FOLLOW THE DIRECTIONS FOR USE, USE RESTRICTIONS, AND PRECAUTIONS ON THIS LABEL MAY RESULT IN POOR PERFORMANCE, OR TURFGRASS INJURY.**

### **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
- Shoes plus socks
- Chemical-resistant gloves made of barrier laminate, butyl rubber  $\geq 14$  mils, nitrile rubber  $\geq 14$  mils, neoprene rubber  $\geq 14$  mils, polyvinyl chloride (PVC)  $\geq 14$  mils or Viton™  $\geq 14$  mils

### **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. Keep children and pets out of the treated area until sprays have dried.

## **3.0 PRODUCT INFORMATION**

Primo HiLo plant growth regulator acts by inhibiting the production of gibberellic acid. It reduces the frequency of mowing and grass clipping yield by decreasing vertical growth of warm- and cool-season turfgrasses. The application of Primo HiLo often results in other benefits such as greater turf density, darker green color, and increased turf quality.

Primo HiLo can be applied to residential and commercial lawns, golf courses, sod farms, sports fields, cemeteries, and similar areas. Primo HiLo is useful in the management of difficult-to-mow areas and can be used to minimize the need for edging turfgrass along sidewalks, curbs, parking lots, driveways, flower beds, fences and around posts, buildings,



and trees.

Primo HiLo is rapidly absorbed by the foliage. Primo HiLo is not actively absorbed by turfgrass roots.

The activity and performance of Primo HiLo is primarily affected by: (1) environmental conditions, (2) cultural practices that impact turfgrass growth and vigor, (3) fertility level, (4) moisture availability, and (5) turfgrass vigor.

## **4.0 APPLICATION DIRECTIONS**

All applications must be made according to the use directions that follow.

Thorough coverage is necessary to provide good activity. Make up no more spray solution than is needed for application. Avoid spray overlap, as turfgrass injury may result.

### **4.1 Methods of Application**

Primo HiLo may be applied with a backpack sprayer, hand-held sprayer, boom sprayer, or with spray-gun application devices. Clean spray equipment thoroughly before use. Make sure the sprayer is capable of accurate and uniform application. Calibrate the sprayer before applying Primo HiLo. Rinse sprayer with clean water after use and dispose of rinsate in an approved manner.

### **4.2 Application Equipment**

#### **4.2.1 Nozzles and Pumps**

##### **Nozzles**

- Equip sprayers with nozzles that provide accurate and uniform application.
- Nozzles must be the same size and uniformly spaced across the boom.
- Calibrate sprayer before use.
- It is suggested that screens be used to protect the pump and to prevent nozzles from clogging.
- Screens placed on suction side of the pump must be *16-mesh or coarser*.
- Do not place a screen in the recirculation line.
- Use 50-mesh or coarser screens between the pump and boom, and where required, at the nozzles.
- Check nozzle manufacturer's recommendations.

##### **Pump**

- Use a pump with capacity to:
  - (1) Maintain the specified psi for the nozzles being used to apply the spray mixture.
  - (2) provide sufficient agitation in tank to keep mixture in suspension - this requires recirculation of 10% of tank volume per minute.

- Use a jet agitator or liquid sparge tube for agitation.
- Do not use air sparge.

For more information on spray equipment and calibration, consult sprayer manufacturers' and state recommendations.

## 4.3 Application Volume and Spray Coverage

### Ground Application:

Apply Primo HiLo in sufficient carrier, 20 to 175 gallons of water per acre, to provide uniform and thorough coverage.

- Do not apply through any ultra-low volume (ULV) spray system.
- Thorough coverage is necessary for optimal Primo HiLo performance.

## 4.4 Mixing Directions

- Prepare no more spray mixture than is required for the immediate operation.
- Thoroughly clean spray equipment before using this product.
- Agitate the spray solution before and during application.
- Rinse spray tank thoroughly with clean water after each day's use and dispose of pesticide rinsate by application to an already treated area.
- Do not allow spray mixture to stand overnight or for prolonged periods of time.

### 4.4.1 Primo HiLo Alone

- Add  $\frac{1}{2}$ - $\frac{2}{3}$  of the required amount of water to the spray or mixing tank.
- With the agitator running, add Primo HiLo to the tank.
- Continue agitation while adding the remainder of the water.
- Begin application of the spray solution after Primo HiLo has completely dispersed into the mix water.
- Maintain agitation until all of the mixture has been sprayed.
- For backpack and hand-held sprayers (0.5 to 4.0 gallon capacity): Add required amount of water to tank, then add appropriate amount of Primo HiLo. Close sprayer, shake vigorously, and begin application.

### 4.4.2 Tank Mix Precautions

- It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions, limitations and directions for use on all product labels involved in tank mixing. User must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.
- Tank mixes of Primo HiLo with other pesticides, fertilizers, or any other additives not specifically labelled for use with Primo HiLo may result in tank mix incompatibility or unsatisfactory performance. In such cases, always check tank

mix compatibility by conducting a jar test according to guidance in **Section 4.4.3** before actual tank mixing.

#### 4.4.3 Tank Mix Compatibility

- Conduct a jar test using a 1 pt to 1 qt transparent glass container with lid by adding water or other intended carrier such as a liquid fertilizer to the jar.
- Next, add the appropriate amount of pesticides(s) or tank mix partner(s) in their relative proportions based on specified label rates. Add tank mix components separately in the order described in the tank mixing section, **Section 4.4.4**. After each addition, shake or stir gently to thoroughly mix.
- After all ingredients have been added, put the lid on the jar, tighten and invert the jar 10 times to mix.
- After mixing, let the mixture stand 15–30 minutes and then examine for signs of incompatibility, including obvious separation, large flakes, precipitates, gels or heavy oily film on the jar.
- If the mixture remains mixed or can be remixed readily, it is physically compatible and can be used.
- If the mixture is incompatible, repeat the test using a compatibility agent at the specified label rate. Or, if applicable, slurry dry formulations in water before adding to the jar. If incompatibility is still observed after following these procedures, do not use the mixture.
- After compatibility testing is complete, dispose of any pesticide wastes in accordance with the storage and disposal section, **Section 7.0**, of this label.

#### 4.4.4 Primo HiLo in Tank Mixtures

- Primo HiLo is usually compatible with tank mix partners registered for similar use sites. To determine the physical compatibility of Primo HiLo with other products, use a jar test as described in **Section 4.4.3**.
- Add 1/2-2/3 of the required amount of water to the spray or mixing tank.
- With the agitator running, add the tank mix partner(s) this order:
  1. Water-soluble packaging
  2. Wettable powders
  3. Wettable granules (dry flowables)
  4. Liquid flowables
  5. Emulsifiable concentrates (such as Primo HiLo)
  6. Surfactants/adjuvants.
- Allow each product to completely dissolve and disperse into the mix water before adding the next product and continue agitation until all products are added.
- Continue agitation while adding the remainder of the water to the spray tank.
- Begin application of the mixture after all products have been completely dispersed into the application mixture.
- Maintain agitation until all of the application mixture has been applied.
- Observe all directions for use, precautions, and limitations which appear on tank

mix partner label.

### Mixing in the Spray Tank

- Add  $\frac{1}{2}$ - $\frac{2}{3}$  of the required amount of water to the spray or mixing tank.
- With the agitator running, add the tank mix partner(s) into the tank in the same order as described above.
- Allow the material to completely dissolve and disperse into the mix water. Continue agitation while adding the remainder of the water and Primo HiLo to the spray tank.
- Allow Primo HiLo to completely disperse.
- Spray the mixture with the agitator running.

## 5.0 RESTRICTIONS AND PRECAUTIONS

### 5.1 Use Restrictions

- **DO NOT** apply more than 3.67 fl oz per 1,000 sq ft per year (160 fl oz per acre per year) equivalent to 2.5 lb trinexapac-ethyl per acre per year.
- **DO NOT** exceed 43 fl oz/A (0.68 lb ai/A) in a single application. **DO NOT** double the single maximum application rate for extended suppression.
- **DO NOT** apply through any ultra-low volume (ULV) spray system.
- **DO NOT** apply to turfgrass by air.
- **DO NOT** apply to turfgrass through irrigation systems (chemigation).
- **DO NOT** use this product in a greenhouse.
- **DO NOT** graze animals on treated areas.
- **DO NOT** feed clippings from treated areas to livestock.
- **DO NOT** enter or allow others to enter the treated area until sprays have dried.

### 5.2 Use Precautions

- Application is not recommended if turf is under severe stress.
- Application rates listed in **Section 6.1** should result in approximately 50% growth inhibition for 4 weeks with minimal yellowing during good growing conditions.
- Where yellowing of *Poa annua* is a concern, use one-half this rate and apply more frequently. For *Poa annua* conversion/renovation, where temporary discoloration can be tolerated, twice this rate may be applied,
- To minimize possible turf injury, apply Primo HiLo, then wait at least 4 hours before mowing. Alternatively, Primo HiLo can be applied 1 hour after mowing.
- When applying, avoid spray overlap as crop injury may occur.

## 5.3 Spray Drift Management

### 5.3.1 Spray Drift Advisories

THE APPLICATOR IS RESPONSIBLE FOR AVOIDING OFF-SITE SPRAY DRIFT.  
BE AWARE OF NEARBY NON-TARGET SITES AND ENVIRONMENTAL CONDITIONS.

### 5.3.2 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 favorable environmental conditions.

### 5.3.3 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 greater spray volume is needed, consider using a nozzle with a higher flow rate.
- **Pressure** – Use the lowest spray pressure specified 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.

### 5.3.4 Boom Height – Ground Boom

For ground equipment, keep the boom level with the crop and have minimal bounce.

### 5.3.5 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.

### 5.3.6 Temperature and Humidity

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

### 5.3.7 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.

### 5.3.8 Wind

Drift potential 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.

### 5.3.9 Handheld Technology Applications

Take precautions to minimize spray drift.

## 6.0 TURGRASS USE DIRECTIONS

Primo HiLo plant growth reduces frequency of mowing and grass clipping yield by reducing vertical growth of warm- and cool-season turfgrasses. The application of Primo HiLo often results in other benefits such as greater turf density, darker green color, and increased turf quality.

The application rates presented in **Section 6.1** provide approximately 50% growth inhibition over a 4-week period with little or no discoloration of turf growing under favorable conditions.

Application rates listed in **Section 6.1** have been selected for typical mowing heights. The application rate may need to be adjusted.

- Excessive turf growth may require higher rates of Primo HiLo. Under these conditions, the rate of Primo HiLo may need to be increased by up to 50% to provide an adequate length of growth inhibition.
- For extended growth suppression and when temporary discoloration can be tolerated, a maximum of twice the recommended Primo HiLo rate may be applied. **DO NOT** exceed 43 fl oz/A (0.68 lb ai/A) in a single application. **DO NOT** double the single maximum application rate for extended suppression.
- If applications of Primo HiLo are made on a weekly or biweekly basis, reduce the lowest rate in the table by at least 50% for the first application and monitor the turf growth. Adjust the application rate for the desired amount of growth suppression.
- Primo HiLo use rates may need to be reduced up to 50% for turfgrass grown under conditions of low fertility, compaction, or other factors which stress turf.
- Peak growth regulation occurs approximately 3-5 days after Primo HiLo application.

Primo HiLo reaches the growing point by foliar uptake and is rainfast after one hour. Watering-in is not recommended for optimal performance.

Turfgrass tolerance to Primo HiLo has been found to be acceptable for the turfgrasses listed on this label. Test Primo HiLo on a small-scale prior before making applications to turfgrasses not listed in the application rate tables in **Section 6.1**.

- Apply the low application rate listed in **Section 6.1** for the turfgrass species and setting (lawn, fairway, etc.) being evaluated, then assess turf for phytotoxicity and growth inhibition prior to widespread use.

Primo HiLo may cause temporary yellowing which usually disappears approximately one week after application.

- To minimize yellowing and enhance green color of turf, apply readily available nitrogen at 0.2-0.5 lb nitrogen per 1,000 sq. ft.
- If desired, iron may also be used to enhance turf color.

[Primo HiLo is not expected to stain brass, bronze, concrete, marble, granite, or other types of stone when applied at normal dilution rates. Test on a small scale before using Primo HiLo around these and other materials.]

Areas treated with Primo HiLo should continue to receive regular maintenance practices, such as mowing, irrigation, and fertilization; including weed, disease, and insect control when necessary, and as recommended for managing high-quality turf. Because some herbicides can injure turf, tank mixes with Primo HiLo should be tested on a small scale before widespread use.

## 6.1 Turfgrass Directions for use

### 6.1.1 Turfgrass on Golf Courses Putting Greens

Turfgrass		
Turfgrass on golf courses putting greens		
Turf Type	Use Rate (fl oz/1000 sq ft)	Use Rate (fl oz/A)
<b>Cool-season turfgrass</b>		
Bentgrass	0.070	3.0
Mixed stand (Bentgrass/ <i>Poa annua</i> )	0.070	3.0
<i>Poa trivialis</i> <sup>2</sup> [*]	0.070	3.0
<b>Warm-season turfgrass</b>		
Bermudagrass, Dwarf and Ultradwarf <sup>1</sup>	0.030-0.060	1.5-2.5
Seashore Paspalum	0.040-0.100	2.0-4.5
Zoysiagrass	0.030	1.5

<sup>1</sup>For bermudagrass overseeding preparation, apply 0.125 fl. oz. per 1,000 sq. ft. (5.5 fl. oz. per acre) to golf course putting greens.

<sup>2</sup>Including bermudagrass putting greens overseeded with *Poa trivialis*.

[\* Not Registered for Use By California]

#### Use Restrictions

- 1) Refer to **Section 5.1** for additional product use restrictions.
- 2) **DO NOT** apply more than 3.67 fl oz per 1,000 sq ft per year (160 fl oz per acre per year) equivalent to 2.5 lb trinexapac-ethyl per acre per year.
- 3) **DO NOT** exceed 43 fl oz/A (0.68 lb ai/A) in a single application.

## 6.1.2 Turfgrass on Golf Courses Fairways, Tees, and Sports Fields

Turfgrass		
Golf Course Fairways, Tees, and Sports Fields		
Turf Type	Use Rate (fl oz/1000 sq ft)	Use Rate (fl oz/A)
<b>Cool-season turfgrass</b>		
Bentgrass	0.125	5.5
Fescue, Fine[*]	0.125	5.5
Fescue, Tall (turf type)[*]	0.125	5.5
Kentucky bluegrass	0.125	5.5
Mixed stand (Bentgrass/ <i>Poa annua</i> ) <sup>1</sup>	0.125	5.5
Mixed stand (K. bluegrass/Fescue/P. ryegrass) [*]	0.125	5.5
Mixed stand (K. bluegrass/P. ryegrass/ <i>P. annua</i> )	0.250	11.0
Ryegrass, Perennial <sup>3</sup>	0.250	11.0
<b>Warm-season turfgrass</b>		
Bermudagrass, Common <sup>2</sup>	0.125	5.5
Bermudagrass, Hybrids <sup>2</sup>	0.125	5.5
Bermudagrass, Dwarf and Ultradwarf	0.100	4.5
Kikuyugrass	0.150	6.5
Seashore Paspalum	0.070-0.125	3.0-5.5
Zoysiagrass	0.070	3.0
<sup>1</sup> Where yellowing of <i>Poa annua</i> is a concern, use one-half this rate and apply more frequently. For <i>Poa annua</i> conversion/renovation, where temporary discoloration can be tolerated, twice this rate may be applied. <sup>2</sup> For bermudagrass overseeding preparation, apply 0.250 fl. oz. per 1,000 sq ft (11.0 fl. oz. per acre) to golf fairways and tees. <sup>3</sup> For post-overseeding applications to perennial ryegrass apply 0.125 to 0.175 fl. oz. per 1,000 sq. ft. (5.5 to 7.6 fl. oz. per acre) on fairways and tees. [* Not Registered for Use By California]		



Use Restrictions
1) Refer to <b>Section 5.1</b> for additional product use restrictions.
2) <b>DO NOT</b> apply more than 3.67 fl oz per 1,000 sq ft per year (160 fl oz per acre per year) equivalent to 2.5 lb trinexapac-ethyl per acre per year.
3) <b>DO NOT</b> exceed 43 fl oz/A (0.68 lb ai/A) in a single application.

### 6.1.3 Residential and Commercial Turfgrass

Turfgrass		
Residential and Commercial Turfgrass <sup>1</sup>		
Turf Type	Use Rate (fl oz/1000 sq ft)	Use Rate (fl oz/A)
<b>Cool-season turfgrass</b>		
Bentgrass	0.375	16.5
Fescue, Fine	0.375	16.5
Fescue, Tall	0.500	22.0
Fescue, Tall (Turf Type)	0.375	16.5
Kentucky bluegrass	0.300	13.0
Mixed stand (K. bluegrass/Fescue/P. ryegrass)	0.375	16.5
Ryegrass, Annual	0.500	22.0
Ryegrass, Perennial	0.500	22.0
<b>Warm-season turfgrass</b>		
Bahiagrass	0.500	22.0
Bermudagrass, Common	0.375	16.5
Bermudagrass, Hybrids	0.125-0.190	5.5-8.0
Bermudagrass, Dwarf and Ultradwarf	0.100	4.5
Buffalograss	0.500	22.0
Carpetgrass	0.125-0.200	5.5-9.0
Centipedegrass	0.250	11.0
Kikuyugrass	0.150-0.250	6.5-11.0
Seashore Paspalum	0.190	8.0
St. Augustinegrass	0.050-0.070	2.0-3.0
Zoysiagrass	0.125	5.5
<sup>1</sup> Including, but not limited to home lawns, parks, recreation areas, golf course roughs, cemeteries, business sites, and sod farms.		

Use Restrictions
1) Refer to <b>Section 5.1</b> for additional product use restrictions.
2) <b>DO NOT</b> apply more than 3.67 fl oz per 1,000 sq ft per year (160 fl oz per acre per year) equivalent to 2.5 lb trinexapac-ethyl per acre per year.
3) <b>DO NOT</b> exceed 43 fl oz/A (0.68 lb ai/A) in a single application.

### 6.1.4 Edging/Banding of Turfgrass

Turfgrass		
Edging/Banding <sup>1</sup>		
Turf Type	Use Rate (fl oz/1000 sq ft)	Use Rate (fl oz/A)
<b>Cool-season turfgrass</b>		
Bentgrass	0.5	22.0
Fescue, Fine	0.5	22.0
Fescue, Tall	0.5	22.0
Fescue, Tall (Turf Type)	0.5	22.0
Kentucky bluegrass	0.4	16.5
Ryegrass, Annual	0.5	22.0
Ryegrass, Perennial	0.5	22.0
<b>Warm-season turfgrass</b>		
Bahiagrass	0.5-1.0	22.0-43.0
Bermudagrass, Common	0.5-1.0	22.0-43.0
Bermudagrass, Hybrids	0.4	16.5
Bermudagrass, Dwarf and Ultradwarf	0.4	16.5
Buffalograss	0.5	22.0
Carpetgrass	0.3	11.0
Centipedegrass	0.5	22.0
Kikuyugrass	0.5	22.0
Seashore Paspalum	0.3	11.0
St. Augustinegrass	0.2-0.4	9.0-18.0
Zoysiagrass	0.4	16.5
<sup>1</sup> Primo HiLo can be applied along the perimeter of lawns, sidewalks, curbs, parking lots, driveways, posts, storage buildings, pet pens, fences, or other areas. Primo HiLo can be used around trees, shrubs, flower beds, and other border plants or similar areas with no injury. Apply Primo HiLo in an 8- to 12-inch band with a single nozzle sprayer. Use the higher rate to reduce the growth of the turfgrass into adjacent areas.		

Use Restrictions
1) Refer to <b>Section 5.1</b> for additional product use restrictions. 2) <b>DO NOT</b> apply more than 3.67 fl oz per 1,000 sq ft per year (160 fl oz per acre per year) equivalent to 2.5 lb trinexapac-ethyl per acre per year. 3) <b>DO NOT</b> exceed 43 fl oz/A (0.68 lb ai/A) in a single application.

## 6.2 TURFGRASS PRE-STRESS CONDITIONING

Multiple Primo HiLo applications along with proper cultural practices such as fertilization, irrigation, drainage, mowing height, etc., will delay the onset of stress and enhance turf recovery from stress.

Apply Primo HiLo to healthy, actively growing turf before the onset of stress and continue to apply Primo HiLo throughout the growing season as long as the turf remains healthy.

Turfgrass root-mass is often greater in turf treated with Primo HiLo compared to similar, non-treated turf. As turf above-ground growth slows, energy is redirected to below-ground plant parts, and root and rhizome production increases.

Multiple applications of Primo HiLo will reduce water use and improve drought tolerance. Primo HiLo applications result in smaller, more compact turfgrass plants. Leaf area is reduced; thus, decreasing transpiration. Increased turf density reduces moisture loss from soil evaporation, and additional soil moisture is available due to increased root depth and mass. Primo HiLo may increase carbohydrate levels which have been shown to enhance heat and cold tolerance.

In areas with reduced light intensity, repeat applications of Primo HiLo will improve turf quality. Initiate Primo HiLo applications while turf is still healthy.

Research has demonstrated that Primo HiLo may also enhance the performance of fungicides. Monthly applications of Primo HiLo at label rates or more frequent applications at lower label rates strengthen turfgrass to defend against pathogen infection. In addition, if mowing is less frequent, and leaf removal is reduced, contact and systemic fungicides stay at effective concentrations on or in turfgrass longer.

## 6.3 SUPPRESSION OF ANTHRACNOSE

Primo HiLo can be applied at rates of 0.050 to 0.100 fl oz per 1,000 sq. ft. (2.0 to 4.5 fl oz per acre) every 7 to 14 days for suppression of basal rot anthracnose. Use the lower rate when seedheads are present. For optimal disease control, tank mix Primo HiLo with a fungicide registered for the control of anthracnose.

## 6.4 POA ANNUA CONVERSION / RENOVATION

Primo HiLo can be applied to existing turfgrass stands infested with *Poa annua* as part of an overseeding/renovation program. Such an application allows for better germination and

seedling growth of more desirable turf. The use of Primo HiLo will reduce above-ground vertical growth; thus, decreasing maintenance traffic, such as frequent mowing, on new seedlings. Primo HiLo is absorbed by turfgrass foliage; therefore, seed germination will not be affected. Apply Primo HiLo 1 to 5 days before seeding; and before verticutting, scalping, spiking, or other similar agronomic practices.

Temporary initial discoloration is possible with aggressive application rates of Primo HiLo to turf infested with *Poa annua*. The following spring, apply the high rate of Primo HiLo for the turf type and setting listed in the application rate tables. Actual conversion success will depend on growing conditions, fertilization, rainfall, and other agronomic and environmental conditions.

## **6.5 POA ANNUA SEEDHEAD SUPPRESSION**

Primo HiLo will keep *Poa annua* seedheads lower in the canopy when applied prior to seedhead emergence. Primo HiLo can be tank mixed with Proxy® (ethephon) for improved seedhead suppression. Apply 0.070 to 0.125 fl oz per 1,000 sq ft (3.0 to 5.5 fl oz per acre) of Primo HiLo plus 5.0 fl oz per 1,000 sq ft of Proxy 3 to 4 weeks prior to expected seedhead emergence. A follow-up application can be made two weeks after the initial application. See Proxy label for use information and restrictions.

## **6.6 SEEDHEAD SUPPRESSION**

When Primo HiLo is applied at rates equal to or higher than the application rates listed in **Section 6.1**, Primo HiLo provides seedhead suppression of hybrid bermudagrass, and partial seedhead suppression of *Poa annua*, bahiagrass, buffalograss, carpetgrass, common bermudagrass, Kentucky bluegrass, and tall fescue. Primo HiLo must be applied prior to seedhead formation.

## **6.7 BERMUDAGRASS OVERSEEDING**

An application of Primo HiLo to bermudagrass will enhance the establishment of overseeded cool-season turfgrass. Primo HiLo will decrease vertical leaf growth and require less maintenance traffic on new seedlings. Primo HiLo is absorbed by turfgrass foliage; therefore, germination and seedling growth is not impacted.

Apply Primo HiLo before verticutting, scalping, spiking, or conducting similar agronomic practices to bermudagrass. Apply Primo HiLo 1 to 5 days before seeding.

Primo HiLo can be applied post-overseeding to enhance perennial ryegrass establishment and reduce bermudagrass competition on fairways and tees. Apply Primo HiLo at 0.125 to 0.175 fl. oz. per 1,000 sq. ft. (5.5 to 7.6 fl oz per acre) once perennial ryegrass cover reaches 85%. The first Primo HiLo application should occur just after the first mowing. A second application 21-28 days after the first application improves perennial ryegrass color and density. These application timings are approximate and may need to be adjusted based on perennial ryegrass establishment and environmental conditions.

Temporary initial discoloration of turfgrass is possible with aggressive application rates of Primo HiLo. Use normal seeding rates for your area and turf setting (lawn, fairway, etc.). Actual overseeding success will also depend on growing conditions, fertilization, rainfall, and other agronomic and environmental conditions. For maintenance applications, see the application rate tables in **Section 6.1**.

## 6.8 [APPLICATION WITH TURF MARKING PAINT

Primo HiLo can extend the duration of marking paint visibility when applied before or with marking agents. Mix Primo HiLo with water first when combining with latex-based marking agents. Refer to the marking agent label for further instructions.

Apply Primo HiLo at 0.50 fl oz per gallon of marking paint mix to treat approximately 1,000 sq ft of line surface area. Refer to **Section 4.4** of this label for additional mixing instructions.]

## 7.0 STORAGE AND DISPOSAL

### STORAGE AND DISPOSAL

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

#### Pesticide Storage

Store in a cool, dry place.

#### Pesticide Disposal

Pesticide wastes are toxic. Improper disposal of unused pesticide, spray mixture, or rinsate is a violation of federal law. If these wastes cannot be disposed of by use according to label instructions, they must be disposed of according to federal, state, or local procedures. Contact your State Pesticide or Environmental Control Agency or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

#### Container Handling [(less than or equal to 5 gallons)]

**Non-refillable 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  $\frac{1}{4}$  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 offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

**Container Handling [(greater than 5 gallons)]**

**Non-refillable 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 ¼ 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 offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

**Container Handling [(greater than 5 gallons)]**

**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 person refilling. To clean container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 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 approved by state and local authorities.

**CONTAINER IS NOT SAFE FOR FOOD, FEED, OR DRINKING WATER.**

## **8.0 CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY**

**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of SYNGENTA CROP PROTECTION, LLC or Seller. To the extent permitted by applicable law Buyer and User agree to hold SYNGENTA and Seller harmless for any claims relating to such factors. It is not possible to test every turfgrass species and cultivar for tolerance to Primo HiLo. Neither the manufacturer nor the seller has determined if Primo HiLo can be used safely on turfgrasses not specified on this label. The user should determine if Primo HiLo can be used safely prior to use.

SYNGENTA warrants that this product conforms to the chemical description on the label and

is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. To the extent permitted by applicable law: (1) this warranty does not extend to the use of the product contrary to label instructions, or under conditions not reasonably foreseeable to or beyond the control of Seller or SYNGENTA, and (2) Buyer and User assume the risk of any such use. **TO THE EXTENT PERMITTED BY APPLICABLE LAW, SYNGENTA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS WARRANTED BY THIS LABEL.**

To the extent permitted by applicable law, in no event shall SYNGENTA be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF SYNGENTA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF SYNGENTA OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

SYNGENTA and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitation of Warranty and Liability, which may not be modified except by written agreement signed by a duly authorized representative of SYNGENTA.

## 9.0 APPENDIX

### 9.1 Primo HiLo Conversion Table

fl oz product per acre	lb ai trinexapac-ethyl per acre
1.5	0.02
2.0	0.03
3.0	0.05
4.5	0.07
5.5	0.08
6.5	0.10
8.0	0.12
9.0	0.14
11.0	0.17
13.0	0.20
16.5	0.26
18.0	0.28
22.0	0.34
43.0	0.68

### 9.2 Tank Mix Partners for Primo HiLo

Product	EPA Reg. No.	Active Ingredient
Proxy	432-1230	Ethephon



Primo HiLo®, the ALLIANCE FRAME,  
the Syngenta Logo and the PURPOSE ICON  
are Trademarks of a Syngenta Group Company

Proxy® is a trademark of Bayer.

Viton™ is a trademark of The Chemours Company FC, LLC

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For non-emergency (e.g., current product information), call Syngenta Crop Protection at 1-866-796-4368.
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Primo HiLo XXXX NEW-C 1123-CL-jab-8/26/25  
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