



Bayer CropScience

Bayer CropScience LP
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CAPRENO® Herbicide

EPA Reg. No.: 264-1063

For use on field corn, field corn grown for silage, white corn and seed corn.

Supplemental Label

CAPRENO® Herbicide

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read this label and the product package label before using this product. This Supplemental Label must be in possession of the user at the time of pesticide application. Follow all applicable directions, restrictions, Worker Protection Standard requirements, and precautions on the registered product package label for **CAPRENO® Herbicide**.

Product Information

Capreno® Herbicide may be used for preemergence or postemergence selective control of annual grasses and broadleaf weeds in field corn, field corn grown for silage, white corn and seed corn. If Capreno® Herbicide is applied as a preemergence application, do not apply Capreno® Herbicide as a postemergence application. Dry weather conditions following the preemergence application of Capreno® Herbicide may reduce weed control. When Capreno® Herbicide is applied postemergence, growth of susceptible weeds ceases within hours after application. Symptoms on susceptible weed species progress from stunted growth to yellowing and bleaching to necrosis resulting in eventual plant death generally within 7 to 14 days after application. CAPRENO® Herbicide also contains a safener, which greatly reduces or prevents the temporary yellowing or stunting crop response associated with the contained herbicide chemistries when applied postemergence. If symptoms appear, corn quickly outgrows the effect and develops normally.

Capreno® Herbicide is effective in controlling glyphosate-, triazine-, plant growth regulant-, PPO- or ALS- resistant weed populations.

APPLICATION METHODS

Ground Application:

1. Apply with **ground equipment only**. DO NOT APPLY BY AIR.
2. DO NOT OVERLAP SPRAY PATTERNS BEYOND EQUIPMENT MANUFACTURERS RECOMMENDATIONS AS EXCESSIVE RATES MAY RESULT IN ADVERSE CROP RESPONSES.
3. Apply CAPRENO® Herbicide alone or in tank mixtures in a minimum of 10 gallons of spray mixture per acre. Uniform, thorough spray coverage is important to achieve consistent weed control.
4. **Keep the spray boom at the lowest possible spray height above the target surface.** Refer to the nozzle manufacturer's recommendations for proper nozzle, pressure setting and sprayer speed for optimum product performance and minimal spray drift.
5. Uneven application, sprayers not properly calibrated, or improper incorporation may decrease the level of weed control and/or increase the level of adverse crop response. Over application or boom overlapping may result in stand loss. Maintain a constant ground speed while applying this product to ensure proper distribution. **MAINTAIN ADEQUATE AGITATION AT ALL TIMES, INCLUDING MOMENTARY STOPS.**
6. **SPRAY DRIFT MANAGEMENT**
 - a. To reduce the potential of spray drift to non-target areas, apply this product using nozzles which deliver medium to **coarse spray droplets** as defined by ASAE standard S-572 and as shown in nozzle manufacturer's catalogs. Flat fan nozzles of 80° or 110° are recommended for optimum post emergence broadcast coverage. Nozzles that deliver COARSE spray droplets may be used to reduce spray drift provided spray volume per acre (GPA) is increased to maintain coverage of weeds. **DO NOT** use nozzles that produce FINE (e.g. - Cone) or EXTRA COARSE (e.g., Flood jet) spray droplets.
 - b. Only apply this product when the potential for drift to adjacent non-target areas is minimal (e.g., when the wind is **10 MPH or less** and is blowing away from sensitive areas). **Do not** apply during periods of temperature inversions.
 - c. To avoid potential adverse effects to non-target areas, maintain a 25 foot buffer between the point of direct application and the **closest downwind edge** of sensitive terrestrial habitats (such as grasslands, forested areas, shelter belts, woodlots, hedgerows, riparian areas and shrub lands), sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, creeks, marshes, streams, reservoirs and wetlands) and estuarine/marine habitats.

Preemergence Applications:

Preemergence applications of Capreno® Herbicide may be made in either conventional, conservation tillage or no-till cropping systems. Grass and broadleaf weeds controlled by a preemergence application of Capreno® Herbicide are listed in Table 1. Apply CAPRENO® Herbicide alone or in tank mixtures in a minimum of 10 gallons of spray mixture per acre.

Broadcast Postemergence Applications:

Apply CAPRENO® Herbicide broadcast in a minimum of 10 gallons of water per acre. For weed control in dense weed populations or under adverse growing conditions, apply this product in 15 to 20 gallons of water per acre. Good coverage is essential to achieve optimum weed control. CAPRENO® Herbicide is recommended to be applied broadcast postemergence from the V1 up to and including the V5 stages of corn growth.

For **Preemergence Applications** and **Broadcast Postemergence Applications**, flat-fan nozzles operated at 30-60 PSI will typically deliver MEDIUM spray droplets, providing optimum spray coverage and canopy penetration. Lower pressure operation and/or higher volume flat fan nozzles typically deliver COARSE sprays. Refer to nozzle manufacturer catalogs.

- Boom height should be based on the height of the crop – at least 15 inches above the crop canopy.
- Air induction nozzles should be used at or near 80 psi to produce a medium droplet size.
- Proper agitation should be maintained within the tank to keep the product dispersed.
- See the **Spray Drift Management** section of this label for additional information on proper application of CAPRENO® Herbicide.

USE RESTRICTIONS AND PRECAUTIONS

1. Plant corn at least 1 ½ inches deep. Corn seed must be completely covered with soil and furrow firmed.
2. DO NOT apply this product by air or through any type of irrigation system.
3. Apply CAPRENO® Herbicide spray mixtures within 24 hours of mixing to avoid product degradation.
4. CAPRENO® Herbicide is rainfast 1 hour after application to most weed species.
5. DO NOT apply more than two applications of CAPRENO® Herbicide to field corn in one growing season.
6. Allow at least 14 days between applications of CAPRENO® Herbicide.
7. Do not apply CAPRENO® Herbicide to corn that exhibits injury from previous herbicides applications.
8. If CAPRENO® is applied as a preemergence application, do not apply CAPRENO® as a postemergence application.
9. Weed control may be reduced if the application is made when weeds are dust covered or in the presence of heavy dew, fog, and mist/rain or when weeds are under stress due to drought.
10. Avoid spray drift from treated areas. Refer to the Spray Drift Management section of this label for additional information.
11. Tank contamination can cause severe damage to other crops. Careful management of tank clean out is required. See Tank Cleanout section for complete instructions.
12. DO NOT apply CAPRENO® Herbicide within 45 days of grazing livestock or harvesting corn forage.
13. Field corn (yellow dent) can be planted immediately after an application of CAPRENO® Herbicide. Other rotational crops can be planted as instructed in the rotational crop restrictions portion of this label.
14. A 25 foot buffer for ground applications must be maintained between the point of direct application and the **closest downwind edge** of sensitive terrestrial habitats (such as grasslands, forested areas, shelter belts, woodlots, hedgerows, riparian areas and shrub lands), sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, creeks, marshes, streams, reservoirs and wetlands) and estuarine/marine habitats.
15. Postemergence applications of CAPRENO® Herbicide should be made in water as the carrier. Sprayable fluid fertilizer as a herbicide carrier for postemergence applications in corn can typically cause corn injury up to and including tissue burn (necrosis). Sprayable fluid fertilizer as a carrier is not recommended for use with CAPRENO® Herbicide after crop emergence unless typical fertilizer burn symptoms on the crop are acceptable.

Mixing Instruction

Application with water or liquid fertilizer as a carrier: CAPRENO® Herbicide must be applied with clean and properly calibrated equipment. Prior to adding CAPRENO® Herbicide, ensure that the spray tank, filters and nozzles have been thoroughly cleaned and that agitation system is properly working.

1. Fill spray tank with 50% of the required volume of water, or liquid fertilizer prior to the addition of CAPRENO® Herbicide and begin agitation.
2. Agitate the CAPRENO® Herbicide product container by shaking, circulating, or stirring prior to adding the herbicide into the spray tank.
3. Add the appropriate amount of CAPRENO® Herbicide slowly to the spray tank or mixing system and ensure complete dispersion. Maintain and ensure thorough dispersion and sufficient agitation during both mixing and spraying.
4. If tank mixing with another pesticide, add the tank mix product next.
5. Add nitrogen fertilizer.
6. Add the adjuvant.
7. Fill the spray tank with balance of water needed.

If ammonium sulfate (AMS) is the nitrogen fertilizer source, it is preferred that the AMS go into the tank after the CAPRENO® Herbicide and before other tankmix partners or adjuvants.

SPECIFIC CROP USE DIRECTIONS (Field Corn and Field Corn Grown for Silage)

Preemergence Use

- This product can be used as a preemergence application in field corn, field corn grown for silage and specialty corns such as white corn and seed corn for the control of annual broadleaf and grass weeds.
- **Do not apply CAPRENO® Herbicide on coarse textured soils containing less than 2.0% organic matter or crop injury may occur.**
- Apply CAPRENO® Herbicide preemergence at 3-6 fl oz of product/A per application. In most cases, CAPRENO® Herbicide alone will not provide season-long residual grass and broadleaf weed control and should be either tank mixed with additional registered residual preemergence herbicide (see Preemergence tank mixture section) or be followed by a planned postemergence herbicide application program.
- **If Capreno is applied as a preemergence application, do not apply Capreno as a postemergence application.**
- In preemergence situations where weeds have emerged prior to corn emergence, a tank mixture of CAPRENO® Herbicide with crop oil concentrate (COC) is recommended for burndown of labeled weeds which are 3 inches or less in height. When weeds are greater the 3 inches in height or weeds not controlled by CAPRENO® Herbicide are present, the addition of a burndown herbicide (e.g., Ignite, Gramoxone® Extra, glyphosate, or 2,4-D) is recommended. The addition of atrazine in the tank mixture will further improve control of certain weeds.

Glyphosate (including Roundup and Touchdown branded products)

CAPRENO® Herbicide at 3 fl oz/A can be tank mixed with glyphosate for use on glyphosate-tolerant corn. CAPRENO® Herbicide will enhance broadleaf control, combat glyphosate-resistant weeds and reduce glyphosate induced weed shifts. Do not use MSO/ESO or COC adjuvants in this mixture. CAPRENO® Herbicide should be added to the water in the tank and dispersed first prior to adding Ammonium Sulfate (AMS), glyphosate or any other pesticide or adjuvant. Follow all other directions on the glyphosate label including required adjuvants and mixing instructions with loaded (adjuvant-containing) formulations of glyphosate used at full rates. The addition of a glyphosate-compatible oils such as HSOC is recommended to optimize weed control in combination with CAPRENO® Herbicide. The addition of a glyphosate-compatible oils such as HSOC is required with tank mixtures of unloaded glyphosate formulations and CAPRENO® Herbicide, or when using less than full rates of loaded glyphosate formulations.

Preemergence Tank Mixtures

CAPRENO® Herbicide may be used in tank-mixture with atrazine to improve spectrum and consistency of weed control wherever atrazine use is permitted and appropriate.

Preemergence Broadleaf and Grass Weed Control

CAPRENO® Herbicide effectively controls the following grass and broadleaf weeds when applied at 3-6 fl oz/A. In most cases, CAPRENO® Herbicide alone will not provide season-long residual weed control and should be either tankmixed with additional registered residual preemergence herbicide(s) or be followed by a planned postemergence herbicide application program.

Table 1. Broadleaf/Grass Weeds Controlled with Preemergence Applications of Capreno®

Weeds Controlled	Scientific Name	CAPRENO® Herbicide 3 fl oz/A	CAPRENO® Herbicide 3 fl oz/A + atrazine minimum of 0.5 lb ai/A
Broadleaf Weeds			
Lambsquarters, common	<i>Chenopodium album</i>	C	C
Pigweed, red root	<i>Amaranthus retroflexus</i>	C	C
Smartweed, Pennsylvania	<i>Polygonum pennsylvanicum</i>	C	C
Velvetleaf	<i>Abutilon theophrasti</i>	C	C
Waterhemp, common	<i>Amaranthus rudis</i>	C	C
Grasses			
Barnyardgrass	<i>Echinochloa crus-galli</i>	PC	PC
Foxtail, giant	<i>Setaria faberi</i>	PC	PC
Foxtail, yellow	<i>Setaria pumila</i>	PC	PC
Panicum, fall	<i>Panicum dichotomiflorum</i>	PC	PC

C = Control

PC = Partial control

RESISTANCE MANAGEMENT

CAPRENO® Herbicide contains two modes of action, a HPPD inhibitor (Group 27) and an ALS/AHAS enzyme inhibitor (Group 2). Naturally occurring biotypes of certain weed species with resistance to ALS and/or HPPD-inhibiting herbicides are known to exist. Repeated use of herbicides with similar modes of action allow resistant weeds to spread. To manage the development and spread of resistant weed populations, use herbicides with different modes of action in tank mixture, rotation or in conjunction with alternate cultural practices. Performance of CAPRENO® Herbicide is not affected by the presence of weed biotypes resistant to glyphosate-, triazine-, PPO- or growth regulant- herbicide modes of action.

**For MEDICAL And TRANSPORTATION Emergencies ONLY Call 24 Hours A Day 1-800-334-7577
For PRODUCT USE Information Call 1-866-99BAYER (1-866-992-2937)**

*As with any crop-protection product, always read and follow label directions.
For additional information call toll-free 1-866-99BAYER (1-866-992-2937).*