

# Technical Guidelines

Acuron<sup>®</sup> corn herbicide controls more than 70 difficult-to-control weeds like waterhemp, marehail, Palmer amaranth and giant ragweed with its combination of four active ingredients and three effective modes of action.



## Application Guidelines

**(Always read and follow product label)**

- **Rate<sup>1</sup>:** The use rate of Acuron is based on percent soil organic matter. Rate is **2.5 qt/A for soil organic matter content <3% or 3.0 qt/A for soil organic matter (OM) content ≥3%**. On soils with greater than 10% organic matter, Acuron activity may be affected and result in reduced or poor weed control.
- **Labeled for application from 28 days pre-plant (including burndown) up to 12-inch corn.**
- **Acuron may be used in reduced and no-till systems in either a one or two-pass program. The highest levels of control will be obtained when applications are made as close to planting as possible.** It is recommended that a burndown herbicide such as Gramoxone<sup>®</sup> SL 2.0, Roundup<sup>®</sup> brands, or 2,4-D be tank mixed with Acuron in reduced or no-till systems if weeds are present at application and the corn has not yet emerged.
- Apply preemergence for control of most annual grass and broadleaf weeds in field corn, seed corn, silage corn, sweet corn and yellow popcorn. Acuron may also be applied early postemergence for control of broadleaf weeds in field corn, seed corn and silage corn. **Do not apply Acuron to emerged sweet corn or yellow popcorn or severe crop injury will occur.**
- When tank mixing or sequentially applying atrazine or products containing atrazine with Acuron to corn, **do not exceed an application rate of 2.0 lb active ingredient (AI) of atrazine per acre for any single application, and the total pounds of atrazine applied (lb AI per acre) must not exceed 2.5 lb active ingredient per acre per year.**
- Acuron may be applied early postemergence at a rate of 1.5-2 qt/A in tank mixture with a solo glyphosate product (e.g. Roundup brands) that is registered for use over-the-top in glyphosate-tolerant field corn (e.g. Roundup Ready or Agrisure<sup>®</sup> GT corn).
- Spray nozzles should be uniformly spaced, the same size and type, and should provide accurate and uniform application. Use spray nozzles that provide medium to coarse droplet size to avoid drift yet provide good coverage. Ensure that all in-line strainer and nozzle screens in the sprayer are 50-mesh or coarser.
  - **Preemergence:** Apply in a spray volume of 10-80 gal/A.
  - **Early Postemergence:** Apply in a spray volume of 10-30 gal/A.
- Always ensure that agitation is maintained until spraying is completed, even if stopped for brief periods of time.
- Where Acuron is applied after the corn has emerged, a non-ionic surfactant (NIS) at 0.25% v/v (1 qt/100 gal) may be used. The use of a crop oil concentrate (COC) is not recommended.



## Application Restrictions

- Do not exceed 3.0 qt/A of Acuron per year.
- Do not use aerial application to apply Acuron.
- Do not apply Acuron by sprinkler irrigation.
- Do not apply early postemergence to corn in liquid fertilizer or severe crop injury may occur.
- Do not use Acuron on any crop other than corn (for grain, seed, or silage), sweet corn (preemergence applications only) or yellow popcorn (preemergence applications only).



## Restricted Entry Interval (REI)

- REI: 24 hours<sup>2</sup>.

<sup>1</sup> These rates apply to all application method timings.

<sup>2</sup> Refer to the Acuron product label for information on earlier entry.



## Application Timing

- **Early Preplant:** Acuron may be applied up to 28 days prior to planting.
- **Preemergence Surface:** Acuron may be applied to the soil surface as a broadcast or banded application.
- **Early Postemergence:** Acuron may be applied after corn (for grain, seed, or silage) emergence. Apply this treatment to small broadleaf weeds (less than 3 inches tall). Occasional corn leaf burn may result, but this will not affect later growth or corn yield. Postemergence applications to corn must be made before crop reaches 12 inches in height.
- **Split Application:** Acuron may be applied as a split application in corn (for grain, seed, or silage). For a split application program, apply 1/2 to 2/3 of the labeled rate of Acuron prior to crop emergence followed by a second Acuron application at 1/3 to 1/2 of the labeled rate as a post application after corn emergence. **The total amount of Acuron applied in a split application program cannot exceed 2.5 qt/A in soils with <3% OM and cannot exceed 3.0 qt/A in soils with ≥3% OM.**



## Rotational Crops

- Field corn, seed corn, silage corn, sweet corn and yellow popcorn may be replanted anytime<sup>3</sup>.
- Small grain cereals including wheat, barley and rye may be replanted 4 months after application.
- Cotton, dry beans<sup>4</sup>, peanuts, potato, rice, soybeans<sup>5,6</sup> and sorghum (all types) may be replanted 10 months<sup>7,8</sup> after application.
- All other rotational crops may be replanted 18 months after application of Acuron.



## Insecticide Restrictions

- **Applying Acuron postemergence to corn that has received an at-plant application of Counter<sup>®</sup> insecticide can result in severe corn injury.** Temporary corn injury may occur if Acuron is applied to emerged corn where organophosphate insecticides other than Counter were applied at planting.
- Postemergence applications of any organophosphate or carbamate insecticide within 7 days before or 7 days after an Acuron application may result in severe corn injury.



## Formulation

Acuron combines 4 active ingredients and 3 effective modes of action.

<b>Active Ingredient</b>	Atrazine (AAtrex <sup>®</sup> 4L)	Bicyclopyrone	Mesotrione (Callisto <sup>®</sup> )	S-metolachlor (Dual II Magnum <sup>®</sup> )
<b>Mode of Action</b>	Group 5	Group 27	Group 27	Group 15
<b>Purpose</b>	Burndown plus residual control of broadleaf weeds	Burndown plus residual and improved plus more consistent control of large-seeded broadleaf weeds	Burndown plus residual control of broadleaf weeds	Residual control of annual grasses and small-seeded broadleaf weeds

For more information, visit [Acuron-Herbicide.com](http://Acuron-Herbicide.com), talk to your local Syngenta retailer or contact the Syngenta Customer Center at **1-866-SYNGENTA (796-4368)**.

<sup>3</sup> Do not reapply Acuron.

<sup>4</sup> This rotational interval applies only to areas west of US highway 83 in the states of Colorado and Nebraska: If Acuron was applied to ground that was under center pivot irrigation and the soil pH is greater than 6.5, dry beans can be planted 10 months following application.

<sup>5</sup> Injury may occur to soybeans planted the year following application on soils having a calcareous surface layer if additional atrazine or atrazine-containing products are used.

<sup>6</sup> In eastern parts of the Dakotas, KS, western MN, and NE, do not rotate to soybeans for 18 months following application if the combined atrazine rate applied was more than 2.0 lb ai/A, or equivalent band application rate, or soybean injury may occur.

<sup>7</sup> If applied after June 1, rotating to crops other than corn (all types) may result in crop injury.

<sup>8</sup> In the High Plains and Intermountain areas of the West, where rainfall is sparse and erratic or where irrigation is required, use only when corn (all types) or sorghum is to follow corn, or a crop of untreated corn (all types) or sorghum is to precede other rotational crops.

