Ultra Blazer® Quicksheet

Post-emergence weed control options in sugar beets are very limited. For the 2024 growing season, a Section 18 Emergency Use Label was approved for the application of Ultra Blazer® on sugar beets. This quicksheet will provide information on the best application practices for the use of Ultra Blazer® on sugar beet. Only Ultra Blazer® can be applied with this Section 18 Emergency Use Label, no other acifluorfen products have a label for use on sugar beets. The Ultra Blazer® Section 18 label expires on July 31, 2024. **Consult the label for product and application specifications.**

Ultra Blazer® Herbicide

Ultra Blazer® is a PPO inhibitor herbicide, group 14. This group of herbicides are primarily post-emergence contact herbicides that are activated by exposure to sunlight to form oxygen compounds that kill weeds by destroying plant tissue. These herbicides also have the potential to create leaf burn on the sugar beet crop. Ultra Blazer® is an effective herbicide on weeds in the amaranth family which includes tall waterhemp and redroot pigweed. Ultra Blazer® is a tool for managing emerged glyphosate resistant waterhemp in sugar beets. PPO herbicide resistance may be present in the waterhemp population. If you observe possible PPO resistance following an application of Ultra Blazer, please contact your agriculturist.

Waterhemp control following an Ultra Blazer® application.

Application Specifications

1. 16 ounces of Ultra Blazer® per acre is the use rate.
2. Apply to sugar beets at 6-leaf stage or larger. Severe leaf burn can occur on smaller sugar beets.
3. Target weeds less than 4” tall.
4. Apply in 20 gallons of water per acre. Good coverage is essential for an effective Ultra Blazer® application.
5. Use appropriate nozzle and pressure to achieve medium droplet size.
6. Use a non-ionic surfactant at 1-2 pints per 100 gallons of spray mix.
7. Do not mix Ultra Blazer® with any pesticides other than glyphosate.
8. Do not apply by aerial application.
9. Do not make more than one application per season.
10. Restricted Entry Interval (REI) = 48 hours.
11. Pre-Harvest Interval = 45 days.
12. No applications after July 31, 2024.
13. See page 2 for additional adjuvant information.

Regrowth after Ultra Blazer® application due to large weed size.
Photo Credit: Steve Roehl

Reducing the Risk of Injury to Beets

1. Do not apply to sugar beets smaller than 6 leaf.
2. Do not apply when temperatures exceed 90 degrees F.
3. Make applications late in the day as temperatures begin to cool.
4. Separate Ultra Blazer® applications from any pesticide application containing oil-based products by 3-5 days.
5. Do not tank-mix any additional pesticides other than glyphosate.
6. Risk of injury may increase with sudden changes from cool and cloudy to hot and sunny and also during high humidity conditions.
7. Sugar beets and weeds may be more susceptible to Ultra Blazer® in fields treated with a soil-applied herbicide.
8. The addition of a non-ionic surfactant to the Ultra Blazer® is the safest additive for sugar beet injury. See the adjuvant effects section below.

Sugar Beet Injury Symptoms

Untreated check versus sugar beet damage from Ultra Blazer® application at 2-4 leaf stage. Severe leaf burn and stand loss. Photo credit: Tom Peters and David Mettler

Bronzing of sugar beet leaves from application of Ultra Blazer® at the 12-leaf stage. Photo credit: Tom Peters

Adjuvant Effects on Ultra Blazer®

- Increased beet injury was seen when Roundup PowerMax3® was tank-mixed with Ultra Blazer® in the 2022 and 2023 weed control trials. We recommend not tank-mixing PowerMax3 with Ultra Blazer® due to this injury risk or be prepared to accept this increased injury risk for the potential of additional waterhemp control. If Ultra Blazer is mixed with PowerMax3, AMS should be used, but NIS should be left out of the tank-mix.
- Non-ionic surfactant has the least injury potential to beets when applied with Ultra Blazer®.

The information contained in this quicksheet is meant to provide information regarding Ultra Blazer® applications for your operation in 2024. However, it can not provide all the details for every application. **Consult your agriculturist and the product label** for additional information**.**

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