

DuPont™ Matrix®

herbicide

*A flexible step-up in tomato weed control ...
plus excellent crop tolerance*

DuPont™ Matrix® herbicide helps manage a broad spectrum of tough grass and broadleaf weeds, with flexible sequential application options.

Excellent tomato tolerance

Matrix® has been extensively tested and commercially used with confidence on a wide range of tomato varieties. Studies have not shown any varieties that are known to be sensitive to Matrix®†. However, if crop response does occur, the symptoms are usually in the form of mild, temporary chlorosis (lighter shade of green) lasting only a few days. Studies also demonstrate that crop yield and grade are not affected.

Versatile application options

Preemergence, postemergence and sequential applications of Matrix® allow more breathing room to get your herbicide applied in a timely way.

Crop rotation options

Matrix® degrades quickly in the soil, allowing for flexible rotation to a wide range of crops, including dry beans, field and sweet corn, garlic, potatoes, cotton, winter wheat and tomatoes. See the Matrix® product label for specific crop rotation intervals. When tank mixing other products with Matrix® follow the most restrictive herbicide label for crop rotation options.

Note: Where drip-irrigated tomatoes are grown, rotate only to tomatoes, potatoes or field corn, as crop injury may result.

Use rates

■ Preemergence applications.

Apply Matrix® after seeding at 2 to 4 ounces of product per acre. For preemergence activity on weeds, Matrix® must be activated by a single rainfall event or sprinkler irrigation of ½ to 1 inch within 5 days after application.

■ Postemergence applications.

Apply Matrix® at 2 ounces of product per acre to young, actively growing weeds after the crop has reached the cotyledon stage. Use a surfactant at a minimum rate of 0.25 percent v/v (2 pints per 100 gallons of water).

■ **Preemergence followed by postemergence** Apply Matrix® at 2 ounces of product per acre (broadcast basis) preemergence followed by a postemergence application of Matrix® at 2 ounces of product per acre (broadcast basis).

■ **Postemergence followed by postemergence.** Multiple applications of Matrix® may be made postemergence. Allow 7 to 14 days between postemergence applications. For sequential applications, the total amount of Matrix® applied cannot exceed 4 ounces per acre per year on a broadcast basis.

■ **Band applications.** Matrix® can be applied in a preemergence band at 2 to 4 ounces of product per acre (for example, 0.5 to 1 ounce of product per conventional

broadcast acre assuming 25 percent banding) followed by two separate postemergence band applications applied at 2 ounces of product per acre (for example, 0.5 ounce of product per conventional broadcast acre assuming 25 percent banding) over the same sprayed area.

Matrix® can be applied using three postemergence band applications at 2 ounces of product per acre (for example, 0.5 ounce of product per conventional broadcast acre assuming 25 percent banding).

Notes: For sequential applications, the total amount of Matrix® may not exceed 4 ounces product per acre per year on a broadcast basis.

Do not make any more than three band applications of Matrix® in one growing season.

For best residual control of weeds following a postemergence application of Matrix® soil activation is necessary, in the form of rainfall or sprinkler irrigation.

Good stewardship

Matrix® works on a plant enzyme not found in fish, wildlife or humans. Once applied, Matrix® is unlikely to move into surface or ground water because of its rapid breakdown, soil-binding characteristics and moderate solubility in water. Matrix® leaves no detectable residues in tomato fruit.

† Tomato varieties may differ in their response to various herbicides. DuPont recommends that you first consult your state university or Extension agent as to sensitivity prior to using any new herbicide. If no information is available, limit the initial use to a small area.



**Weeds controlled or suppressed* preemergence¹
at 2 to 4 ounces of DuPont™ Matrix® per acre**

Grasses	Broadleaf weeds
Barnyardgrass	Cocklebur*
Crabgrass*	Henbit
Foxtail: giant, green, yellow	Lambsquarters, common*
Oat, wild*	Mustard, black
Wheat, volunteer	Pigweed: prostrate*, redroot, smooth
	Purslane, common
	Ragweed, common*
	Velvetleaf*

**Weeds controlled or suppressed* postemergence²
at 1 to 2 ounces of Matrix® per acre + surfactant³**

Grasses	Broadleaf weeds and sedges
Barnyardgrass	Chickweed, common
Bluegrass, annual	Cocklebur*
Crabgrass, large	Henbit
Foxtail: bristly, giant, green, yellow	Lambsquarters, common* Morningglory, ivyleaf*
Johnsongrass*	Mustard, wild
Oat, wild*	Nightshade ^{4,5} , black (cotyledon stage only)
Wheat, volunteer	Nightshade, hairy*
	Nutsedge, yellow*
	Pigweed: redroot, smooth
	Purslane, common
	Radish, wild
	Ragweed, common*
	Shepherd's-purse
	Smartweed, Pennsylvania*
	Thistle, Canada*
	Velvetleaf*

* Weed suppression is a reduction in weed competition (reduced population and/or vigor) as visually compared to an untreated area. The degree of suppression varies with the rate used, the size of the weeds and the environmental conditions following treatment.

¹ Preemergence control and optimum postemergence control require adequate and timely moisture activation. See product label for activation requirements. If any weeds are present at applications prior to crop emergence, use a surfactant at a minimum rate of 0.5 percent v/v (4 pints per 100 gallons of water).

² Optimum postemergence control is obtained when Matrix® is applied to small (less than 1-inch tall or across) actively growing weeds.

³ Non-ionic surfactant recommended: Use a minimum rate of 0.25 percent v/v (2 pints per 100 gallons of water) non-ionic surfactant of 80 percent ai or higher. The use of crop oil concentrate, methylated seed oils, nitrogen fertilizer solution or non-ionic surfactant rates above 0.25 percent v/v may result in temporary crop chlorosis (lime green color).

⁴ Nightshade, eastern black is NOT controlled or suppressed.

⁵ For best results, apply Matrix® preemergence at 2 to 4 ounces per acre followed by a postemergence application at 1 to 2 ounces per acre to small actively growing nightshade.

Cultivation

A timely cultivation may be necessary to control suppressed weeds. Optimum timing for cultivation is 7 to 14 days after a postemergence application of Matrix®.

Application equipment

Apply Matrix® only by ground with properly calibrated sprayer equipment.

Label instructions

Always read and follow the Matrix® label and the labels for companion herbicides used with Matrix®. Always follow the most restrictive label for directions and precautions of use when tank mixing other products with Matrix®.

Pay special attention to instructions for sprayer tank cleanout and avoiding spray drift.

For more information

Contact your local DuPont crop protection retailer or DuPont representative for more information about Matrix® herbicide programs. And visit our Web site at matrix.dupont.com.

This reference guide is not intended as a substitute for the product label for the products referenced herein. Product labels for the above products contain important precautions, directions for use and product warranty and liability limitations that must be read before using the product. Applicators must be in possession of the product label(s) at the time of application. Always read and follow all label directions and precautions for use when using any pesticide alone or in tank mix combinations.

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