

DuPont™ Prequel™

herbicide

Burndown plus residual grass and broadleaf herbicide



General Information

DuPont™ Prequel™ herbicide has been tested as a burndown plus residual grass and broadleaf herbicide applied preemergence in front of conventional as well as herbicide-tolerant corn hybrids. Prequel™, tank mixed with glyphosate or paraquat, and/or atrazine, provided cross-spectrum burndown at planting, as well as residual control on tough grasses and broadleaf weeds during corn's critical weed-free period.

Prequel™ herbicide		
Biological attributes	Active ingredients	Performance measures
Burndown control (with systemic activity)	Rimsulfuron Isoxaflutole	Control of many grass and broadleaf weeds present at time of application.
Residual control	Rimsulfuron Isoxaflutole	Residual control of tough grass and broadleaf weeds, helping to keep corn clean through the critical weed-free period for an in-crop postemergence application closer to crop canopy.



DuPont™ Prequel™ herbicide 1.66 oz/A



Glyphosate 22 ounces/A

Weeds present include deadnettle, henbit, chickweed, then followed with germination of summer annuals, giant ragweed, lambsquarters and foxtails. Date applied: 14 days ahead of planting — on April 14, 2008. Photos taken June 2, 2008.

Weeds controlled or suppressed by DuPont™ Prequel™ herbicide

Grasses

Barnyardgrass
Bluegrass, annual*
Crabgrass, large*
Foxtail: bristly, giant, green, yellow
Panicum, fall*
Signalgrass, broadleaf*
Wheat, volunteer
Wild oat*

Broadleaf weeds

Carpetweed*
Chamomile, false
Cocklebur*
Filaree, redstem
Henbit
Jimsonweed*
Kochia (ALS-sensitive)
Lambsquarters, common
Morningglory, ivyleaf*
Mustard: birdsrape, black
Nightshade*: hairy, black
Palmer amaranth*
Pigweed: prostrate, redroot, smooth
Purslane, common
Ragweed, common*
Russian thistle, seedling*
Smartweed, Pennsylvania*
Velvetleaf*

* partial control/suppression

Use Rates and Biological Activity

Prequel™ was applied at 1.66 ounces of product per acre. It is absorbed by both roots and foliage, rapidly inhibiting the growth of susceptible weeds. Warm, moist conditions after application were shown to accelerate Prequel™ residual activity.

Application Window

Prequel™ was applied from 30 days prior to planting up to prior to crop emergence. Best results for burndown activity were obtained when applications were made when weeds present at application were small. When weeds are greater than 3 inches in height or weeds not controlled by Prequel™ herbicide are present, the addition of a burndown herbicide is recommended.

Adjuvant Selections

Control of emerged weeds required the addition of an adjuvant. Prequel™ was tested in combination with various adjuvants, including non-ionic surfactant and crop oil concentrate. When Prequel™ was applied in a tank-mix combination with a glyphosate or glufosinate herbicide that contained a built-in adjuvant system, no additional surfactant needed to be added.

Tank-Mix Partners

Prequel™ demonstrated additional burndown and residual activity on emerged weeds when tank mixed with full or reduced rates of atrazine.

Formulation

Prequel™ is formulated as a water-dispersible granule that is a new formulation utilizing proprietary homogenous blend technology from DuPont. This product was mixed in water or preslurried in water and mixed with liquid fertilizer and applied as a spray for the control of susceptible annual and perennial broadleaf and grass weeds in corn.

Prequel™ herbicide is registered for weed control in field corn in the states of: Arkansas, Illinois, Indiana, Iowa, Kansas, Kentucky, Missouri, Montana, Nebraska, North Dakota, Ohio, Oklahoma, Pennsylvania, South Dakota, Tennessee, Texas and Wyoming. Refer to the product label for additional use information specific to Kansas, Missouri and South Dakota.

Prequel™ is a restricted-use pesticide.

This reference guide is not intended as a substitute for the product label for the product(s) referenced herein. Product labels for the above product(s) 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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