

SUPREND™ COTTON HERBICIDE
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Abstract

Suprend™ is a new post-directed herbicide pre-mix for use in Cotton developed by Syngenta Crop Protection, and its application for registration is currently pending with US EPA. Suprend™ is a pre mix of trifloxysulfuron sodium (the active ingredient in Envoke™) and prometryn (the active ingredient in Caparol™), formulated as an 80 WG in a 1:112 ratio. Suprend™ contains two herbicide modes of action that aid weed control as well as provides sound glyphosate resistance management. Suprend™ also provides excellent residual weed control in cotton. Suprend™ is compatible with conventional, Roundup Ready® and BXN® cotton production systems.

Economically important weeds controlled by Suprend™ in cotton include but are not limited to: coffee senna (*Cassia occidentalis*), hemp sesbania (*Sesbania exaltata*), sicklepod (*Senna obtusifolia*), common cocklebur (*Xanthium strumarium*), pitted morningglory (*Ipomoea lacunosa*), ivyleaf morningglory (*Ipomoea hederacea*), entireleaf morningglory (*Ipomoea hederacea* var. *integriuscula*), redroot pigweed (*Amaranthus retroflexus*), smooth pigweed (*Amaranthus hybridus*), and suppression of seedling johnsongrass (*Sorghum halepense*), yellow nutsedge (*Cyperus esculentus*), and purple nutsedge (*Cyperus rotundus*).

Suprend™ can be used in all picker cotton varieties across a large section of the southern cotton growing areas, including the Southeast, Mid-South as well as portions of Texas. Applications should be post directed beginning in cotton as small as 8 inches in height up through the lay-by timing. Use rates will be 1 to 1.5 pounds of formulated product per acre. Do not apply more than 2.7 pounds of formulated product per year nor do not apply 60 days before harvest. Suprend™ is expected to be available for the 2004 cotton use season.

Tank mix options include several commonly used herbicides in cotton such as MSMA, Touchdown®, Dual Magnum®, Aim™, diuron, linuron, Cobra®, Caparol®, and Buctril®. Do not tank mix Suprend™ with malathion, profenofos (Curacron®) or emamectin-benzoate containing insecticides (Denim®), acephate, Bidrin®, Capture®, Karate® or unacceptable cotton injury can occur.

Rotation restrictions include: 3 months: wheat, transplanted tomato, 7 months : cotton, corn, sorghum, peanut, rice, soybean, transplanted tobacco, 12 months bell pepper, Irish potato, radish, parsley, 18 months: all other crops.

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