

FOR CONTROL OF ANNUAL AND PERENNIAL WEEDS AND USE ON SOYBEAN AND COTTON - NORTH CAROLINA

General Information

Product Information

Enlist Duo herbicide is a systemic herbicide that is intended for control of emerged annual and perennial weeds. Enlist Duo is designed to be applied to corn, soybean, and cotton crops containing Enlist traits. These are patented genes that provide tolerance to Enlist Duo. Corn, soybeans, cotton or any other crop without the Enlist trait will be seriously damaged by foliar applications of Enlist Duo.

When this product is applied as directed and under the circumstances described, it controls annual and perennial weeds listed in the label.

Time to Symptoms: This product moves through the plant from the point of foliage contact to and into the root system. Visible effects include twisting of leaves and curvature of stems followed by a gradual wilting and yellowing of the plant that advances to complete browning of above-ground growth and deterioration of underground plant parts. Visible effects on most annual weeds occur within 2 to 4 days depending upon weed species.

Stage of Weeds: Annual weeds are easiest to control when they are small. Best control of most perennial weeds is obtained when treatment is made at late growth stages approaching maturity. Refer to the annual and perennial rate tables for specific weeds. When treating weeds with disease or insect damage, weeds heavily covered with dust, or weeds under poor growing conditions, reduced weed control may result.

Rainfastness: Heavy rainfall soon after application may wash off this product from the foliage.

Spray Coverage: For best results, spray coverage should be uniform and complete. Do not spray weed foliage to the point of runoff.

Mode of Action: 2,4-D, one of the active ingredients in this product, mimics the naturally occurring plant auxins and overloads the plant's auxin balance affecting

vital processes, such as cell division and elongation, resulting in abnormal growth and plant death. Glyphosate, the other active ingredient in this product, inhibits the EPSP synthase enzyme. This enzyme is found only in plants and microorganisms and is essential to forming specific amino acids.

Limited Soil Activity: Though some suppression of annual weeds emerging soon after application may occur when this product is applied at higher rates within the rate range, optimum control is achieved when the majority of weeds are emerged at the time of application. Unemerged plants arising from unattached underground rhizomes or rootstocks of perennials will not be affected by the herbicide and will continue to grow.

Biological Degradation: Degradation of this product is primarily a biological process carried out by soil microbes.

Herbicide Resistance Management

2,4-D, one of the active ingredients in this product, is a Group 4 herbicide (synthetic auxin). Glyphosate, the other active ingredient in this product, is a group 9 herbicide (inhibitor of EPSP synthase). Some naturally occurring weed biotypes that are tolerant (resistant) to 2,4-D or glyphosate may exist due to genetic variability in a weed population. Where resistant biotypes exist, the repeated use of herbicides with the same modes of action can lead to the selection for resistant weeds. Certain agronomic practices delay or reduce the likelihood that resistant weed populations will develop and can be utilized to manage weed resistance once it occurs.

Proactively implementing diversified weed control strategies to minimize selection for weed populations resistant to one or more herbicides is a best practice. A diversified weed management program may include the use of multiple herbicides with different modes of action and overlapping weed spectrum with or without tillage operations and/or other cultural practices. Research has demonstrated that using the labeled rate and directions for use is important to delay the selection for resistance.

The continued availability of this product depends on the successful management of the weed resistance program; therefore, it is very important to perform the following actions.

To aid in the prevention of developing weeds resistant to this product, the following

steps should be followed:

- Scout fields before application to ensure herbicides and rates will be appropriate for the weed species and weed sizes present.
 - Apply full rates of Enlist Duo for the most difficult to control weed in the field at the specified time (correct weed size) to minimize weed escapes.
 - Scout fields after application to detect weed escapes or shifts in weed species.
 - Report any incidence of non-performance of this product against a particular weed species to your Dow AgroSciences retailer, representative or call 1-855-ENLIST-1(1-855-365-4781)
 - If resistance is suspected, treat weed escapes with an herbicide having a mode of action other than Group 4 or 9 and/or use non-chemical methods to remove escapes, as practical, with the goal of preventing further seed production.
- Additionally, users should follow as many of the following herbicide resistance management practices practical:
- Use a broad spectrum soil-applied herbicide with other modes of action as a foundation in a weed control program.
 - Utilize sequential applications of herbicides with alternative modes of action.
 - Rotate the use of this product with non-Group 4 and non-Group 9 herbicides.
 - Incorporate non-chemical weed control practices, such as mechanical cultivation, crop rotation, cover crops and weed-free crop seeds, as part of an integrated weed control program.
 - Thoroughly clean plant residues from equipment before leaving fields suspected to contain resistant weeds.
 - Avoid using more than two applications of Enlist Duo and any other Group 4 or Group 9 herbicide within a single growing season unless in conjunction with another mode of action herbicide with overlapping spectrum.
 - Manage weeds in and around fields, during and after harvest to reduce weed seed production.

Contact the local agricultural extension service, Dow AgroSciences representative, ag retailer or crop consultant for further guidance on weed control practices as needed.

Susceptible Plants

Do not apply under circumstances where spray drift may occur to food, forage, or other plantings that might be damaged or crops thereof rendered unfit for sale, use or consumption. Do not allow contact of herbicide with foliage, green stems,

exposed non-woody roots of crops, desirable plants; including trees and cotton without the Enlist trait, because severe injury or destruction may result. Small amounts of spray drift that may not be visible may injure susceptible broadleaf plants. Before making an application, please refer to your state's sensitive crop registry (if available) to identify any commercial specialty or certified organic crops that may be located nearby.

At the time of application, the wind cannot be blowing toward adjacent commercially grown tomatoes and other fruiting vegetables (EPA crop group 8), cucurbits (EPA crop group 9), grapes and cotton without the Enlist trait.

Application Equipment and Application Methods

Chemigation: Do not apply this product through any type of irrigation system.

Aerial Application: Do not aerially apply this product.

Apply Enlist Duo with the following application equipment: Apply spray solutions in properly maintained and calibrated equipment capable of delivering desired volumes.

Ground Broadcast Spray

Boom, pull-type sprayer, floaters, pick-up sprayers, spray coupes and other ground broadcast equipment. Use the minimum boom height based upon the nozzle manufacturer's specifications. Spray drift potential is increased as boom height increases. Spray drift can be minimized if nozzle height is not greater than maximum height recommended by nozzle manufacturer for the nozzle selected. Use the specified rates of this product as a broadcast spray unless otherwise specified. As the density of weeds increases, increases spray volume within the specified range to ensure complete coverage. Check for even distribution of spray droplets.

Uses

Unless otherwise specified, applications may be made to control any weeds listed in the annual and perennial tables.

Precautions:

- The use directions are based upon a clean start at planting by using a burndown application or tillage to control existing weeds before crop emergence.
- In no-till and stale seedbed systems, a preplant burndown application of this product is required to control existing weeds prior to crop emergence.

Restrictions:

- For broadcast burndown or preplant treatments, do not harvest or feed treated vegetation for 8 weeks following application unless otherwise specified.
- Do not irrigate treated fields for at least 24 hours after application of Enlist Duo.
- Do not make application of Enlist Duo if rain is expected in the next 24 hours.
- Do not aerially apply this product.
- Enlist Duo is approved for use in the following states: Alabama, Arkansas, Arizona, Colorado, Delaware, Florida, Georgia, Iowa, Illinois, Indiana, Kansas, Kentucky, Louisiana, Maryland, Michigan, Minnesota, Missouri, Mississippi, North Carolina, North Dakota, Nebraska, New Jersey, New Mexico, New York, Ohio, Oklahoma, Pennsylvania, South Carolina, South Dakota, Tennessee, Texas, Virginia, Wisconsin, and West Virginia. Do not use in any other state.
- Do not use Enlist Duo in the following counties: Arizona (Yuma, Pinal, Maricopa, Pima, La Paz and Santa Cruz); Florida (Brevard, Broward, Charlotte, Collier, DeSoto, Glades, Hardee, Hendry, Highlands, Hillsborough, Indian River, Lee, Manatee, Martin, Miami-Dade, Okeechobee, Orange, Osceola, Palm Beach, Polk, Sarasota, and St. Lucie); Tennessee (Wilson).

Limitations, Restrictions, and Exceptions

FOR CONTROL OF ANNUAL AND PERENNIAL WEEDS AND USE ON ENLIST SOYBEANS AND COTTON

(For Distribution and Use Only in the State of North Carolina)

DIRECTIONS FOR USE

Restrictions/Limitations

Do not apply at wind speeds greater than 10 mph.

Do not allow Enlist Duo to contact foliage, green stems, exposed non-woody roots or fruit of crops, desirable plants and trees because severe injury or destruction may

result. Enlist Duo is designed to be applied to soybean and cotton crops containing Enlist traits. These are patented genes that provide tolerance to Enlist Duo.

Auxin Herbicides – Best Management Practices:

Prior to applying this product postemergence in-crop on Enlist soybeans or cotton for the 2018 growing season and prior to each growing season thereafter, all applicator(s) including commercial applicators, private applicators, and non-certified applicators working under their direct supervision must complete auxin-specific training. Training must be completed annually before each growing season. The annually updated training: “Auxin Herbicides – Best Management Practices” must be approved by the North Carolina Department of Agriculture and Consumer Services. For more information on this training, contact the North Carolina Department of Agriculture and Consumer Services at 919-733-3556 or your local county cooperative extension service office.

Susceptible Plants:

Do not apply under circumstances where spray drift may occur to food, forage, or other plantings that might be damaged or crops thereof rendered unfit for sale, use or consumption. Do not allow contact of herbicide with foliage, green stems, exposed non-woody roots of crops, desirable plants; including trees and cotton without the Enlist trait, because severe injury or destruction may result. Small amounts of spray drift that may not be visible may injure susceptible broadleaf plants. Before making an application, please refer to your state's sensitive crop registry (if available) to identify any commercial specialty or certified organic crops that may be located nearby.

Before making an application, the applicator must survey the application site for neighboring non-target susceptible crops, for example, tobacco, tomatoes, grapes, watermelon, sweet potato, pepper, and non-Enlist trait cotton.

DO NOT APPLY this product when the wind is blowing toward adjacent Enlist Duo sensitive crops, including but not limited to, tobacco, grapes, watermelon, sweet potato, pepper, commercially grown tomatoes, non-Enlist trait cotton, EPA crop group 8 (fruiting vegetables such as tomato, pepper, eggplant, others) and EPA crop group 9 (cucurbit vegetables such as cantaloupe, cucumber, pumpkin, squash, watermelon, others).

Method

[Spray](#)

Restricted Entry Interval

48 hours

Timings

[N.A.](#)