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Growers Overcome Drift Concerns with Enlist™ Technology

Enlist Duo® herbicide offers unmatched weed control and flexibility

INDIANAPOLIS — June 30, 2016 — Field reports are raising awareness of the need to limit herbicide off-target movement. Growers need real-world solutions that control tough weeds and stay on target. Enlist Duo® herbicide provides an answer thanks to a landmark technology that significantly limits herbicide movement.

“Growers are all too aware of recent reports citing the potential off-target movement of herbicides such as dicamba,” says John Chase, Enlist commercial leader for Dow AgroSciences. “They need a solution that provides viable options to meet their weed control needs. Enlist Duo herbicide offers growers who plant Enlist crops improved weed control while staying on target.”



A combination of glyphosate and new 2,4-D choline, Enlist Duo herbicide is a key part of the Enlist™ weed control system. These proven and trusted ingredients handle a long list of hard-to-control and resistant weeds, including Palmer amaranth, waterhemp, marestail and giant ragweed. Just as important, this groundbreaking formulation stays where applied — a characteristic that makes it essential for today’s growers.

A technology that delivers real value

The label for a herbicide defines how to use the product. The registered label for Enlist Duo offers a number of advantages over Monsanto’s proposed label for use of M1691 herbicide on Roundup Xtend™ soybeans and cotton. M1691 is a DGA dicamba



formulation similar to Clarity® herbicide. M1691 offers no improvements over dicamba formulations currently on the market and carries a number of proposed label provisions that could hinder commercial applications.

Enlist Duo features Colex-D® technology and provides several important benefits:

- Minimized potential for physical drift
- Near-zero volatility
- Low odor
- Improved handling characteristics

Enlist Duo® herbicide provides greater flexibility. The registered label for Enlist Duo includes no buffer zone requirement for neighboring soybean fields and a 30-foot downwind buffer for sensitive areas. The proposed M1691 label requires a 110- to 220-foot buffer, depending on the rate applied, around the entire perimeter of the field for application when there are adjacent soybean fields or sensitive areas. This means that on an 80-acre field, with a 110-foot buffer, growers could be prohibited from treating approximately 25 percent of their crop with dicamba.

Growers who apply Enlist Duo can choose from nearly two dozen nozzle options compared with only one for M1691. This gives growers practical options to manage their herbicide and other applications.

Nearly 50 tank-mix products are qualified for use with Enlist Duo, while the proposed M1691 label lists no tank-mix partners, not even glyphosate. Enlist Duo also offers a wide application window and an easy-to-use formulation containing both glyphosate and new 2,4-D choline.

In addition, Enlist Duo® herbicide requires a single-rinse with water when moving into glyphosate-tolerant corn and a triple-rinse with water for other crops. M1691 requires a tank cleaner and triple-rinse before any subsequent applications.

“We want a flexible, user-friendly weed control program,” says Bryan Pietig, a grower and retailer in South Dakota who has experienced Enlist firsthand. “I’ve been extremely impressed with the lack of movement with Enlist Duo. It’s superior in the low-drift and low-volatility aspect. And it controls a broad spectrum of broadleaf weeds.”

Growers need this solution

“Enlist technology is a cost-effective, efficient weed control program that is user-friendly for growers across the Corn Belt,” Chase says. “The ease of use and the flexibility of the product are important.”

Growers need to use practices and products that mitigate drift potential and curb volatility, especially around susceptible crops and areas adjacent to their fields.



Enlist Duo minimizes physical drift and offers near-zero volatility, while offering easily manageable buffers to limit worries about off-target movement.

Stabilizing herbicide means less drift, less volatility

Enlist Duo® herbicide is a new formulation that offers significant benefits over competitors' products when it comes to staying on-target. Not all herbicides have the same tendency to drift. Different herbicide formulations possess properties that impact both physical drift and volatility.

Growers want a product to do what the label says it will do, and that's one reason Dow AgroSciences maintains a proprietary spray lab for evaluating the spray drift potential of herbicidal products, and advanced laboratory testing methods for evaluating the propensity of various herbicides toward vapor drift (volatility). In repeated trials, Enlist Duo herbicide featuring Colex-D® technology shows less movement than either dicamba or traditional 2,4-D formulations.

The Colex-D technology in Enlist Duo herbicide results in a formulation that's much more stable. This helps prevent volatility.

"The choline counterion binds more securely with the 2,4-D in Enlist Duo herbicide," says Brandon Downer, Dow AgroSciences lead formulation application specialist. "This technology gives growers confidence that Enlist Duo will stay where it's applied and not move off-target."

Enlist Duo® herbicide remains stable even when combined with qualified tank mixes. When dicamba is combined with some common tank-mix additives, such as AMS, it can be more prone to unfavorable ion competition, creating a greater risk of volatility.

Enlist Duo is 99 percent less volatile than a tank mix of diglycolamine (DGA) dicamba and glyphosate, and is up to 96 percent less volatile than 2,4-D ester. When applied with low-drift nozzles, Enlist Duo delivers a 90 percent reduction in drift potential.

The formulation for Enlist Duo herbicide provides growers scientifically sound, field-proven mitigation of physical drift and near-zero volatility. This helps ensure on-target application.

Growers can visit Enlist.com to learn more about Enlist™ technology, including Enlist traits and Enlist Duo® herbicide with Colex-D technology.



About Dow AgroSciences

Dow AgroSciences discovers, develops, and brings to market crop protection and plant biotechnology solutions for the growing world. Based in Indianapolis, Indiana, USA, Dow AgroSciences is a wholly owned subsidiary of The Dow Chemical Company and had annual global sales of \$6.4 billion in 2015. Learn more at www.dowagro.com. Follow Dow AgroSciences on [Facebook](#), [Twitter](#), [LinkedIn](#), and [Google+](#), or subscribe to our [News Release RSS Feed](#).

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Dow AgroSciences hosts representatives from nearly 50 independent seed companies, serving crop acres from Arkansas to North Dakota as well as Canada, who are learning firsthand about the competitive advantages of the Enlist™ weed control system.



Enlist Duo® herbicide with Colex-D® technology delivers a 90 percent reduction in drift potential when applied with low-drift nozzles.