



**Dow AgroSciences**

*Solutions for the Growing World*



# **Enlist™ Weed Control System Product Use Guide**

 **Canada Edition**

## Stewardship Overview

Dow AgroSciences Canada Inc. is committed to promoting the responsible use and stewardship of its products — including Enlist™ corn and Enlist Duo™ Herbicide with Colex-D™ Technology.

This Product Use Guide (Guide) details requirements and recommendations for the planting of Enlist corn and the proper use of Enlist Duo Herbicide featuring Colex-D Technology. This Guide is not a pesticide product label. It is intended to provide additional information and to highlight approved uses from specific product labels.

**Read and follow all precautions and directions on the product labels for Enlist Duo Herbicide featuring Colex-D Technology, as well as any other pesticide products.** As a grower planting Enlist corn, you must be both familiar with and follow the Technology Use Agreement (Agreement) and associated Product Use Guides.

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# Technology Use Agreement

**You must have a valid, executed Technology Use Agreement on file with Dow AgroSciences (DAS) to legally obtain, plant, and grow hybrids that contain Dow AgroSciences' Enlist™ trait.**

**Always consult your trait provider's technical guides before planting. ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS. Please direct questions about this Guide or corn that contains Dow AgroSciences technologies and traits to your Seed Seller or to Dow AgroSciences at 1-877-4-TRAITS (1-877-487-2487).**

## Enlist Corn

The Enlist™ trait confers tolerance to 2,4-dichlorophenoxyacetic acid [“2,4-D”] and aryloxyphenoxy propionate [“-fop”] herbicides, and is stacked with a glyphosate tolerance trait in Enlist corn hybrids. This provides the benefits of tolerance to in-crop applications of Enlist Duo™ Herbicide and other DAS Authorized Herbicide Products to reduce weed competition. Enlist Duo Herbicide and the use of other Authorized Herbicides provide alternate modes of action to manage hard-to-control and resistant weeds as part of the management practices for Enlist corn.

In addition to herbicide tolerance, some Enlist hybrids will contain Bt traits that confer insect protection. If you purchase hybrids that contain Bt traits, you must also follow applicable Insect Resistance Management requirements. Consult the *Dow AgroSciences Corn Product Use Guide* for refuge requirements.

	SMARTSTAX® OR POWERCORE™ WITH ENLIST	ROUNDUP READY® 2 WITH ENLIST
2,4-D	Tolerant	Tolerant
Glyphosate	Tolerant	Tolerant
“-fop” herbicides	Tolerant	Tolerant
Glufosinate	Tolerant	Not tolerant
Cyclohexanedione (“-dim”) herbicides	Not tolerant	Not tolerant

### Volunteer corn control

Enlist corn is tolerant to 2,4-D, glyphosate and “-fop” herbicides, such as Assure® II (quizalofop) or Venture L® (fluazifop-p). It is recommended that to control volunteer Enlist™ corn in soybeans, a cyclohexanedione “-dim” herbicide must be used (e.g. Select® (clethodim) or Poast Ultra® (sethoxydim)).

### Coexistence

Corn is a naturally cross-pollinated crop, and a small amount of corn pollen movement to nearby fields is not uncommon. You can take steps to reduce undesired pollen movement, including:

- Maintaining a non-corn buffer between cornfields containing biotechnology traits and conventional cornfields
- Not growing corn with biotechnology traits upwind (based on the prevailing wind directions) of other corn fields
- Discussing your cropping plans with your neighbours in advance

## Crop and grain marketing stewardship

Dow AgroSciences is a member of Excellence Through Stewardship® (ETS). Dow AgroSciences products are commercialized in accordance with ETS product launch stewardship guidance and Dow AgroSciences Product Launch Stewardship Policy.

Direct grain produced from these crops to appropriate markets as necessary. Any crop or material produced from these products can only be exported to, or used in, processed in, or sold in countries where all necessary regulatory approvals have been granted. It is a violation of national and international law to move material containing biotechnology traits across boundaries into nations where import is not permitted. Talk to your grain handler or product purchaser to confirm their buying position for this product.

For further information about your crop marketing options, contact Dow AgroSciences at 1-877-4-TRAITS (1-877-487-2487). Information regarding the regulatory and market status of agricultural biotechnology products can be found at: [www.biotradestatus.com](http://www.biotradestatus.com).

### Authorized herbicides with Enlist corn

Enlist corn contains the patented gene that provides tolerance to 2,4-D and “-fop” herbicides. The Enlist trait is also stacked with the glyphosate trait in Enlist corn hybrids.

The only herbicides containing 2,4-D that may be used are DAS Authorized Herbicide Products (e.g. Enlist Duo Herbicide). **“DAS Authorized Herbicide Product(s)”** means agricultural products that contain either 2,4-D herbicides featuring Colex-D Technology, or AOPP herbicides, or both, that are expressly labeled for use in conjunction with Enlist Crops and are specified in a Product Use Guide. For greater certainty, the only 2,4-D herbicides considered to be DAS Authorized Herbicide Product(s) are those featuring Colex-D Technology.

Growers are not authorized to:

- Use 2,4-D products without Colex-D Technology in conjunction with Enlist crops
- Use any phenoxy auxin herbicides (e.g., 2,4-DB, MCPA, dichlorprop, MCPB, mecoprop) or AOPP herbicides (e.g. quizalofop, cyhalofop, haloxyfop, diclofop, fenoxaprop, fluazifop) other than DAS Authorized Herbicide Products in conjunction with Enlist Crops
- Use any pyridine auxin herbicides (e.g., triclopyr, fluroxypyr) in conjunction with Enlist crops



## Enlist Duo™ Herbicide with Colex-D™ Technology

Enlist Duo is a blend of glyphosate and 2,4-D choline featuring Colex-D Technology. Colex-D Technology is a Dow AgroSciences-proprietary herbicide technology package comprised of 2,4-D choline, advanced formulation science and innovative manufacturing processes. Colex-D Technology provides ultra-low volatility, minimized potential for physical drift, low odour and improved handling characteristics. Ultra-low volatility and minimization of potential for physical drift both help to reduce risk of injury to environmentally sensitive areas and non-target crops. Enlist Duo with Colex-D Technology allows growers and applicators to utilize the Enlist™ Weed Control System with confidence.

<b>CROP</b>	Enlist corn
<b>ACTIVE INGREDIENTS</b>	2,4-D Choline and Glyphosate DMA
<b>MODES OF ACTION</b>	Group 4 and Group 9
<b>FORMULATION</b>	Liquid
<b>SIGNAL WORD</b>	Warning
<b>USE RATE IN-SEASON</b>	Application use rate range of: 2.9–4.3 L/ha
<b>SURFACTANTS/OILS</b>	Not Recommended
<b>APPLICATION TIMING</b>	Apply to emerged annual and perennial weeds
<b>DROPLET SIZE</b>	Coarse to extremely coarse spray
<b>SPRAY VOLUME</b>	Apply 50–200 L of spray solution per hectare (5–20 gpa) Dow AgroSciences recommends 100–150 L/ha (10–15 gpa) to ensure thorough coverage

Read the Product Label for complete details.

### Weed control with Enlist Duo

Enlist Duo is a systemic herbicide with very limited soil residual activity and is intended for control of emerged annual and perennial weeds. Enlist Duo™ is selective to Enlist corn. Enlist corn contains DAS-40278-9 event plus a glyphosate tolerance trait. These contain patented genes that provide tolerance to Enlist Duo. For non-Enlist corn or any other crops not containing Dow AgroSciences-40278-9 event plus glyphosate tolerance traits, foliar application of Enlist Duo will cause serious crop damage and yield loss.

### Rates of application

Use 2.9–4.3 L/ha depending on the weeds present. Apply Enlist Duo when weeds are young and actively growing, per the product label directions. The lower use rates will effectively control young, succulent growth of sensitive weed species. For less sensitive weed species, weeds at an advanced growth stage, or under conditions where control is more difficult, the higher use rate is required.

Dow AgroSciences recommends that for the widest spectrum of weed control growers should apply the 4.3 L/ha rate.

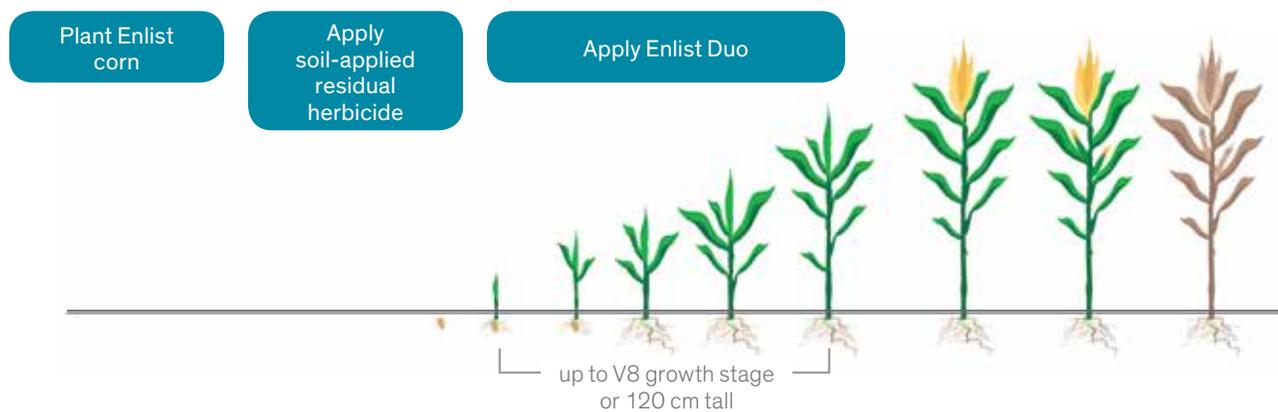
The product label for Enlist Duo contains the directions and recommendations for use over Enlist crops, such as:

- Application equipment requirements
- Product use directions
- Restrictions and precautions
- Weed management information and other product information

## The program approach

Dow AgroSciences recommends using Enlist Duo™ Herbicide with Colex-D™ Technology as part of a program approach to control weeds. This helps to: improve weed control, reduce weed competition during key stages of crop growth, and manage herbicide resistance. The Weed Science Society of America classifies 2,4-D as a Group 4 growth regulator herbicide (synthetic auxin) and glyphosate as a Group 9 herbicide (inhibitor of ESPP synthase).

The recommended weed control program for the Enlist™ Weed Control System in corn is a pre-emergence herbicide product containing at least two non-Group 4/Group 9 modes of action, followed by a post-emergence application of Enlist Duo. If a second post-application of Enlist Duo is needed, it must be made at least 12 days after the first application, as per the product label.



### Benefits of the Enlist Weed Control System including Enlist Duo:

- Eliminates competition from a broad spectrum of early-season grass and broadleaf weeds
- Multiple modes of weed action for resistance management
- Timely post-emergent herbicide applications for optimum weed control and reduced weed competition when the crop is most vulnerable
- Application window is the same as glyphosate in glyphosate system

## Application

Read and follow product label, as well as federal, provincial and local requirements related to application of pesticides. Apply Enlist Duo™ Herbicide with Colex-D™ Technology only with properly calibrated ground application equipment using appropriate carriers.

### Field sprayers

The most common type of sprayer used in herbicide application is the boom sprayer. This sprayer applies a uniform amount of spray solution across the width of the boom.

The main requirements for field spraying are:

1. Uniform pressure across the whole boom
2. All nozzles have the same output and a good spray pattern
3. A constant forward speed in actual field conditions
4. Ability to adjust boom height so that the required nozzle-to-target height can be achieved
5. A stable boom height to ensure proper overlap of the nozzle tip patterns

### Boom height

To minimize spray drift potential, use the optimum nozzle height recommended by the nozzle manufacturer based on configuration of the spray boom and spray angle of the nozzle tip, provided boom height is 60 cm or less above the crop or ground.

### Spray volume

Use a spray volume of 50–200 L/ha (5–20 gpa) and apply with calibrated field sprayer. Dow AgroSciences recommends 100–150 L/ha (10–15 gpa) to ensure thorough coverage. Apply Enlist Duo using low nozzle pressures (200–275 kPa) (30–40 psi).

In general, increase spray volume as crop canopy, height and weed density increase to obtain adequate spray coverage.

## Nozzle selection

Proper spray nozzle selection plays an important role in minimizing the potential for physical drift. When selecting a nozzle, many variables need to be considered, such as: pressure, water volume, speed and nozzle spacing on the boom. In defining nozzles the agricultural industry has moved to classifying and recommending nozzles based upon droplet size. The droplet size from a nozzle becomes very important when the efficacy of a particular crop protection chemical is dependent on coverage, and the prevention of spray leaving the target area is a priority.

The majority of the nozzles used in agriculture can be classified as producing droplets in the range of extremely fine to ultra coarse droplets (as defined by the American Society of Agriculture Engineers (ASAE)). Nozzles that produce droplets in the finer to middle portion of the range generally produce good coverage, but are more prone to drift off target. Nozzles producing droplets from the middle to coarser end of the range can still provide thorough surface coverage and provide significantly improved drift control. The following classification system is used to define nozzle output (Table 1).

**Table 1: Droplet Size Distribution Classification**

CATEGORY	SYMBOL	COLOUR CODE	APPROXIMATE D <sub>v0.5</sub> (VMD) (microns)
Extremely fine	XF	Purple	~50
Very fine	VF	Red	< 136
Fine	F	Orange	136-177
Medium	M	Yellow	177-218
	Coarse	Blue	218-349
	Very coarse	Green	349-428
	Extremely coarse	White	428-622
Ultra coarse	US	Black	>622

To measure the range of droplets produced by a nozzle, the term volume median diameter, or VMD, is used. The VMD represents the droplet size where half of the spray volume is contained in droplets larger than the VMD, and half of the volume is in droplets smaller than the VMD.

Source: The American Society of Agricultural Engineers

Nozzle manufacturers use this standardized system to indicate the droplet size of their nozzles for different size and pressure combinations. Many pesticide product labels, including Enlist Duo™ Herbicide with Colex-D™ Technology, recommend appropriate droplet sizes to be used with products. For example, the label for Enlist Duo recommends using a nozzle producing coarse to extremely coarse sized droplets, as illustrated on Table 1.

From the nozzle manufacturer charts (Table 2 and Table 3), a number of different options are available to provide the nozzle and pressure combination that result in a spray droplet with a size of coarse, (blue) very coarse (green) or extremely coarse (white) classification. This system allows the use of many different combinations of nozzles and pressure settings, to achieve the desired droplet size, reduce drift and provide adequate coverage required for control of the pest.

**Table 2: AIXR TeeJet® (AIXR)**

	PSI										
	15	20	25	30	35	40	50	60	70	80	90
AIXR110015	XC	XC	VC	C	C	C	C	M	M	M	M
AIXR11002	XC	XC	XC	VC	VC	C	C	C	C	M	M
AIXR110025	XC	XC	XC	XC	VC	VC	C	C	C	C	C
AIXR11003	XC	XC	XC	XC	VC	VC	C	C	C	C	C
AIXR11004	UC	XC	XC	XC	XC	XC	VC	VC	C	C	C
AIXR11005	UC	XC	XC	XC	XC	XC	VC	VC	C	C	C
AIXR11006	UC	XC	XC	XC	XC	XC	VC	VC	VC	C	C

Source: TeeJet Technologies

**Table 3: Hypro Ultra Lo-Drift Flat Fan Spray Tip**

	PSI										
	15	20	30	40	50	60	70	80	90	100	115
UL0120-015	VC	C	C	C	C	M	M	M	M	F	F
UL0120-02	VC	VC	C	C	C	C	M	M	M	M	F
UL0120-025	VC	VC	C	C	C	C	M	M	M	M	M
UL0120-03	VC	VC	VC	C	C	C	C	M	M	M	M
UL0120-04	VC	VC	VC	C	C	C	C	M	M	M	M
UL0120-05	XC	XC	VC	VC	VC	C	C	C	C	M	M
UL0120-06	XC	XC	XC	VC	VC	VC	C	C	C	C	M
UL0120-08	XC	XC	XC	VC	VC	VC	C	C	C	C	M

Source: SpraySmarter.com

An important point to remember when choosing a spray nozzle that produces a droplet size in one of the eight categories is that one nozzle can produce different droplet size classifications at different pressures. A nozzle might produce medium droplets at low pressures, while producing fine droplets as pressure is increased.

Nozzle selection is the most important factor in reducing pesticide drift. Take time to match application needs to the nozzle best suited to the situation. Most nozzles can be used under different conditions to reduce drift. They also can be used improperly. Be sure to pay attention to pressure, product, water volumes and pests before you spray.

Enlist Duo applications require a coarse to extremely coarse spray droplet. Ultra coarse droplet sizes may result in decreased weed control and increased crop injury. Ensure that the nozzle you have selected is capable of delivering the required droplet size at the determined pressure and spray volume combination. For further guidance on selecting the correct nozzle contact your sprayer manufacture/dealer.

**Helpful Links:**

- **TeeJet Technologies**  
[www.teejet.com](http://www.teejet.com)
- **Pentair**  
[www.hypropumps.com](http://www.hypropumps.com)
- **Hardi International**  
[www.hardi-international.com](http://www.hardi-international.com)

# Spray Drift Management

## Wind

DO NOT apply Enlist Duo™ Herbicide with Colex-D™ Technology during periods of dead calm. Avoid applications of Enlist Duo when winds are gusty. Drift potential is lowest at wind speeds less than 16 km/h. Target applications at wind speeds greater than 3 km/h but less than 16 km/h. Do not apply at wind speeds greater than 16 km/h.

The product should not be applied at wind speeds less than 3 km/h where temperature inversion or stable atmospheric conditions could exist.

Local terrain can influence wind patterns. The applicator should be familiar with local wind patterns and how they affect drift.

## Temperature and humidity

When making applications of Enlist Duo in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

## Susceptible plants

DO NOT apply Enlist Duo under circumstances where spray drift may occur to food, forage or other plantings that might be damaged or crop production rendered unfit for sale, use or consumption. Vegetables, flowers, grapes, fruit trees and other desirable plants are sensitive to 2,4-D and glyphosate, even in minute quantities. Care should be taken to avoid spraying these types of plants or allowing spray mist to drift onto these plants during both their growing and dormant periods.

## Buffer zones to protect sensitive habitats

A 15 metre buffer is required between the point of direct application of Enlist Duo and the closest downwind edge of sensitive terrestrial habitats (such as grasslands, forested areas, shelter belts, woodlots, hedgerows, riparian areas and shrublands), sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands) and estuarine/marine habitats.

For field sprayer application, the buffer zone of 15 metres can be reduced with the use of drift reducing spray shields. When using a spray boom fitted with a full shield (e.g., shroud, curtain) that extends to the crop canopy, the labeled buffer zone can be reduced by 70%. When using a spray boom where individual nozzles are fitted with cone-shaped shields that are no more than 30 cm above the crop canopy, the labeled buffer zone can be reduced by 30%.

When a tank mixture is used (see tank mixtures section for additional details), consult the labels of the tank-mix partners and observe the largest (most restrictive) buffer zone of the products involved in the tank mixture.

## Mixing instructions

Enlist Duo™ mixes readily with water. Mix spray solutions of this product as follows:

1. Fill the mixing or spray tank with the required amount of clean water
2. Add the specified amount of this product near the end of the filling process and mix well

During mixing and application, foaming of the spray solution may occur. To prevent or minimize foaming, use a commercial defoamer or avoid the use of mechanical agitators, and/or terminate by pass and return lines at the bottom of the tank.

Note: Use approved anti-back siphoning devices where required by provincial or local regulations to avoid siphoning back into the carrier source.

## Drift control

Enlist Duo™ with Colex-D™ Technology contains drift control technology. Using adjuvants and drift control additives with Enlist Duo may have a negative impact on spray stability and application performance. The addition of some adjuvants may also result in increased crop injury, decreased weed control, and/or increased potential for spray drift. Use only Dow AgroSciences approved adjuvants and additives, (Table 4). When a drift control additive is used, read and carefully observe the precautionary statements and all other information appearing on the product label.

## Tank mixtures

In some cases, tank mixing a pest control product with another pest control product or a fertilizer can result in biological effects that could include, but are not limited to, reduced pest efficacy or increased host crop injury. Contact Dow AgroSciences at 1-800-667-3852 or [www.dowagro.ca](http://www.dowagro.ca) for information before mixing any pesticide or fertilizer that is not specifically recommended on the Enlist Duo product label or this Product Use Guide. The user assumes the risk of losses that result from the use of tank mixes that do not appear on the product label or that are not specifically recommended by Dow AgroSciences.

Some herbicides, fungicides, micronutrients and insecticide products may require drift management and application settings that differ from Enlist Duo. Additionally, the formulation components of some products may contain inert ingredients that negatively affect the low-drift properties offered with Enlist Duo with Colex-D Technology. The approved list of tank-mix partners is detailed in Table 4. When applying a tank mix, follow the most restrictive product label for application directions. If the most restrictive product label reduces the agronomic benefit of an approved tank-mix partner to an unacceptable level (i.e. a fungicide being applied in a coarse droplet), these products should not be tank mixed with Enlist Duo™.



## Tank-Mix Compatibility Recommendations

The list of products below have been tank mixed with Enlist Duo™ Herbicide with Colex-D™ Technology, studied and reviewed by Dow AgroSciences. This list is not all encompassing. Ensure that the specific product

being used in the tank mixture is registered for application post-emergence (in-crop) to corn. Read and follow product label directions of all products in the tank mixture.

**Table 4: Enlist Duo Tank-Mix Compatibility Recommendations**

APPLICATION TIMING				
TANK MIXTURES	PRE	EARLY POST 1-3 LEAF STAGE	LATE POST UP TO 8-LEAF STAGE	NOTES
Enlist Duo	✓	✓	✓	
Enlist Duo + Aatrex™ Plus	✓	✗	✗	Tank mix negates the spray quality benefits of Enlist Duo. Do not use beyond pre-emergence.
Enlist Duo™ + Broadstrike™ RC	✓	✓		Broadstrike RC label limited to applications up to 2-leaf corn.
Enlist Duo + Callisto™ + Aatrex	✓	✗	✗	Tank mix negates the spray quality benefits of Enlist Duo. Do not use beyond pre-emergence.
Enlist Duo + Callisto	✓	✓	✓	
Enlist Duo + CropBooster™	✓	✓	✓	
Enlist Duo™ + Dual II Magnum™ + Broadstrike RC	✓	✓		For early post-application follow leaf stage instructions on most restrictive label.
Enlist Duo + Fixate™	✓	✓	✓	CAUTION: The addition of Fixate spray adjuvant to Enlist Duo in combination with additional tank-mix partners will change the chemical makeup of the spray solution which may negatively impact the spray quality benefits of an Enlist Duo tank mix. For more information, please consult your local Dow AgroSciences representative.
Enlist Duo + Frontier Max™	✓	✗		Tank mix negates the spray quality benefits of Enlist Duo™. Do not use beyond pre-emergence.
Enlist Duo + Integrity™	✓			Per Integrity label do not spray beyond pre-emergence.
Enlist Duo + Interlock™	✓	✓	✓	CAUTION: The addition of Interlock spray adjuvant to Enlist Duo in combination with additional tank-mix partners will change the chemical makeup of the spray solution which may negatively impact the spray quality benefits of an Enlist Duo tank mix. For more information, please consult your local Dow AgroSciences representative.

White boxes indicate use pattern is limited by the tank-mix partner label.  
For drift control additives, please consult your local Dow AgroSciences representative.

APPLICATION TIMING				
TANK MIXTURES	PRE	EARLY POST 1-3 LEAF STAGE	LATE POST UP TO 8-LEAF STAGE	NOTES
Enlist Duo™ + Lumax EZ™	✓	✓		Lumax label limited to applications from pre- to 2-leaf corn.
Enlist Duo + Marksman™	✓	✗	✗	Enlist Duo + Marksman tank mix negates the spray quality benefits of Enlist Duo. Do not use beyond pre-emergence.
Enlist Duo + Matador™	✓	✓	✓	
Enlist Duo™ + Primextra™ + Broadstrike RC	✓	✗		Tank mix negates the spray quality benefits of Enlist Duo. Do not use beyond pre-emergence.
Enlist Duo + Primextra + Callisto	✓	✗		Tank mix negates the spray quality benefits of Enlist Duo. Do not use beyond pre-emergence.
Enlist Duo + Primextra	✓	✗		Tank mix negates the spray quality benefits of Enlist Duo™. Do not use beyond pre-emergence.
Enlist Duo + Prowl H2O™	✓	✗		Tank mix negates the spray quality benefits of Enlist Duo. Do not use beyond pre-emergence.
Enlist Duo + Quadris™		✓	✓	
Enlist Duo + Quilt™		✓	✓	
Enlist Duo™ + UAN (28%) (urea, ammonium nitrate)	✗	✗	✗	Tank mix not compatible – do not use.
Enlist Duo + Ultim™		✓	✓	
Enlist Duo + Vantage Plus Max II™ or Maverick III™ or Credit 45™ or Roundup Weather Max™ or Touchdown Total™	✓	✗	✗	Tank mix negates the spray quality benefits of Enlist Duo. Do not use beyond pre-emergence.
Enlist Duo+ AMS (Ammonium Sulphate)	✓	✓	✓	CAUTION: The addition of AMS to Enlist Duo™ in combination with additional tank-mix partners will change the chemical makeup of the spray solution which may negatively impact the spray quality benefits of an Enlist Duo tank mix. For more information, please consult your local Dow AgroSciences representative.

## Restrictions

- Do not apply Enlist Duo™ Herbicide with Colex-D™ Technology by air. Enlist Duo is not registered for aerial application.
- Do not apply more than two post-emergent applications per use season.
- Do not apply more than 8.6 L/ha per use season.

## Following crops

- Enlist Duo does not have any rotational cropping restrictions following an application according to label directions.
- During the growing season following application, do not replant fields with crops other than those labeled for use with 2,4-D and glyphosate.

## Reseeding

- No restrictions to crops containing the Enlist trait.
- Prior to reseeding other crops, contact your local Dow AgroSciences representative.

## Recordkeeping

As part of good farm management practices, maintain detailed spray records, including:

- Field location and number of hectares sprayed
- Crop sprayed and stage of growth
- Date of application, start time and finish time
- Herbicide sprayed and application rate
- Nozzles used and operating pressure
- Travel speed and application rate
- Air temperature and relative humidity
- Wind speed and direction
- Sprayer and boom cleanout

## Sprayer and Equipment Cleanout

To avoid injury to desirable plants, thoroughly clean equipment used to apply Enlist Duo before re-use or using it to apply other chemicals.

### 1. Immediately after spraying, completely drain the sprayer tank

- Any contamination on the outside of the spraying equipment should be removed by washing with clean water.

### 2. First rinse

- Spray the inside of tank with clean water and fill the sprayer with at least one tenth of the spray tank volume.
- Agitate and circulate for 15 minutes, and flush through booms and hoses.
- Remove end caps or open ball valves on the ends of each boom section, and flush solution through the boom ends to ensure there is no spray solution trapped between the boom end and the nozzles.
- Drain tank completely.

### 3. Second rinse

- Fill the tank with clean water.
- Add All Clear® Spray Tank Decontaminator, Clean-Out Spray Tank Cleaner, or 1 L of household ammonia (containing a minimum of 3% ammonia) per 100 L of water, or similar tank cleaning agent as per manufacturer's recommendations while filling the tank with clean water.
- Agitate and then flush the boom and hoses with the cleaning solution. Top up with water making sure the tank is completely full. Allow to stand for 15 minutes with agitation. Flush the solution out of the spray tank through the spray booms. Remove end caps or open ball valves on the ends of each boom section, and flush solution through the boom ends to ensure there is no spray solution trapped between the boom end and the nozzles.
- Let the solution stand in the sprayer tank and booms for an extended period of time, overnight if possible.
- After flushing the boom and hoses, drain tank completely.
- Remove nozzles and screens and clean separately with a cleaning agent or an ammonia solution (100 mL in 10 L water).

#### 4. Third rinse

- Rinse the tank with clean water and flush through the boom and hoses using at least one tenth of the spray tank volume.
- Remove end caps or open ball valves on the ends of each boom section, and flush solution through the boom ends to ensure there is no spray solution trapped between the boom end and the nozzles.
- Drain tank completely.

Do not use ammonia with chlorine bleach. Using ammonia with chlorine bleach will release a gas with a musty odour which may cause eye, nose, throat and lung irritation. Do not clean equipment in an enclosed area.

## Resistance Management Recommendations

Repeatedly using herbicides with the same mode of action can lead to selection for resistant biotypes within the larger population of weeds. The key to controlling existing resistant weeds, and slowing the development of new resistant weeds, is to diversify and reduce selection pressure on the weed population — while maintaining high levels of weed control that limit weed seed production.

You can diversify your weed management strategies by integrating proven practices for weed control, such as:

- Rotate crops and cultural practices to allow for a wider range of weed control practices.
- Start with a clean field, using either a burndown herbicide application or tillage and scout fields before and after herbicide application.
- Use the correct herbicide product at the right rate and time, and apply herbicide mixtures with different modes of action.
- Control weeds early when they are relatively small. Rotate herbicides that have different modes of action and use residual herbicides that have different modes of action.
- Use new commercial, weed-free crop seed and clean equipment before moving from field to field to minimize spread of weed seed.
- Control weed escapes and prevent weeds from setting seeds. Incorporate other herbicides and cultural practices as part of the herbicide-tolerant cropping systems where appropriate.

## Compliance Monitoring

Dow AgroSciences will monitor compliance with the Technology Use Agreement and Product Use Guide(s) through surveys and on-farm assessments. You may receive a request to provide information about the location of fields planted with Enlist™ corn and the herbicides applied to these fields. Failure to follow these stewardship requirements will result in action by Dow AgroSciences, that may include additional education and training, monitoring, and/or loss of access to the technology.

## Contact Us

If you have questions about proper handling and use of these products or if you become aware of potential misuse or incidents involving these products, please call the Solutions Center at 1-800-667-3852 or 1-877-4-TRAITS (1-877-487-2487).

### Resources

- **Enlist**  
[www.enlist.com/en-ca](http://www.enlist.com/en-ca)
- **Dow AgroSciences Solutions Center**  
email: [solutions@dow.com](mailto:solutions@dow.com) or  
1-800-667-3852
- **Trait Regulatory and Market Status**  
[www.biotradestatus.com](http://www.biotradestatus.com)
- **Trait Stewardship**  
[www.traitstewardship.com](http://www.traitstewardship.com) or  
1-877-4-TRAITS (1-877-487-2487)
- **Weed Science Society of America**  
[www.wssa.net](http://www.wssa.net)
- **Herbicide Resistance Action Committee**  
[www.hracglobal.com](http://www.hracglobal.com)

# Stewardship

Dow AgroSciences is a founding member of Excellence Through Stewardship®, is a Responsible Care® company and CropLife Canada member.



EXCELLENCE THROUGH  
STEWARDSHIP®

*Advancing Best Practices in Agricultural Biotechnology*



This Seed is protected under one or more patents. Grower is provided a limited license under the Technology Use Agreement to purchase Seed from Seed Seller and to plant Purchased Seed to produce a single commercial crop in Canada. Grower is NOT permitted: (1) to supply, transfer, license or sublicense any Seed or DAS' Sourced Technology to any other person, entity or other third party for planting or any other purposes; (2) to save or use any seed produced from Seed for planting by Grower or any other third party; or (3) to use or allow others to use Seed or any plant material produced from Seed for crop breeding, seed production, research (including, without limitation, agronomic testing or generation of comparative data against seed containing Third-Party Trait Technology), or generation of regulatory approval data.

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Trademark of BASF: Frontier, Integrity, Poast Ultra, Marksman, Prowl H2O

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Trademark of WinField Solutions LLC: Interlock

Trademark of Excellence Through Stewardship: Excellence Through Stewardship.

Service mark of the American Chemistry Council: Responsible Care.

Enlist corn hybrids contains genes that confer tolerance to 2,4-D, glyphosate, and quizalofop. Roundup Ready crops contain genes that confer tolerance to glyphosate herbicides. Glyphosate herbicides will kill crops that are not tolerant to glyphosate.

Assure II label has been updated in Canada and includes use on Enlist corn. The information presented is not an offer for sale. Always follow weed resistance management, insect resistance management, grain marketing and all other stewardship practices and pesticide product label directions.

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*Solutions for the Growing World*