




**EMPOWERING YOUR AGRIBUSINESS**

# **2023** AGRICULTURAL PRODUCT GUIDE

**CANADA'S CROP PROTECTION COMPANY**



**1-844-269-3276**  **AgraCity.com**

# Discover Our Year-round AGRONOMIC SUPPORT

## All At Your Fingertips

AgraCity has more than just Canada's largest selection of affordable crop inputs. We also offer year round agronomic support at your fingertips:

### **AGRACITY.COM WEBSITE**

A complete list of all AgraCity products and solutions, a unique selector tool to help you find the right solution for your farm, plus agronomic tips, podcasts and articles to help you improve your operation.

### **TECHNICAL AGRONOMY SUPPORT LINE**

AgraCity also offers year-round technical and agronomic support for accurate, timely and up-to-date technical and agronomic information on all AgraCity products and solutions. Just call 1-833-832-7637.

### **PRODUCT PERFORMANCE GUARANTEE**

AgraCity stands behind our product performance with the AgraCity Product Performance Guarantee.



# DEAR VALUED PARTNER,

As the backbone of Canada's agriculture industry, prairie producers are always at the forefront of adopting the best agricultural practices. As a company built by farmers and for farmers, AgraCity is proud to be part of that community.

As we enter a new season, I would like to take a moment to reflect on the past year and express our gratitude for your continued partnership with AgraCity. We sincerely appreciate your support.

We know the past few years have been difficult for some of you, as the effects of drought persist, and although we have seen higher commodity prices, there still exist some very pressing concerns. The supply chain issues continue, and the ongoing fallout from the Ukraine war has further added volatility in the fertilizer market. Then there are the concerns around unpredictable weather, the federal government's 2030 fertilizer emissions reduction proposal, carbon tax, and inflationary pressures. As farmers, we carry a disproportionate share of risk. Rising input costs, dramatic increase in the price of land, equipment and labour, uncertainties around weather and markets... agriculture as a business is exposed to more risk than most other industries. We understand that we need work together to lower your risk.

We understand the challenges you face in this fast-changing agricultural industry, and remain committed to providing you with affordable, high-quality crop protection and nutrition products. The industry has gone through extreme consolidation over the past decades, with most local independent companies selling out to multinationals. That means less competition and less negotiating power for you.

AgraCity's mission is to be an extension of your farming operation that provides you with a competitive edge. We are the only true independent local supply partner capable of creating competition without the influence of the multinationals that are trying to control the agriculture industry -- your industry. We can do this because we are vertically integrated in the supply chain.

AgraCity strives to stay on top of science and technology developments to give you the best ROI on your dollars. This continued innovation provides you an opportunity like no other can offer. In 2022, we expanded our product line to include nearly 100 high-performance solutions, from crop protection to foliar fertilizers. We will continue to innovate and expand our product offerings to meet your evolving needs.

In 2023, we are excited to introduce new formulations of some of our popular crop protection products,

as well as new foliar fertilizers designed to boost crop performance and yield. With our herbicide portfolio, we now have a unique position in the market to allow you to battle herbicide resistance at an affordable price. We also continue to build upon the MicroPhos nutrient product line, all the while adding significant value through the efficiency of macronutrients by offering different micronutrients required for a bumper crop. (Brian Review)

I wish to highlight our smart farm management platform where we continue to provide sophisticated field monitoring and forecasting services. This year we are excited to launch variable rate mapping services to better control application rates. The variable rate service uses field mapping and satellite imagery to provide detailed information about field and crop conditions while taking into account factors such as soil type, weather conditions, and crop stage. The platform will also provide access to updated farming data, news and commodity prices, precision ag tools, grain trading platforms, carbon management and more.

We are also continually updating our website [www.agracity.com](http://www.agracity.com) with relevant information to provide comprehensive product information, agronomic support as well as other resources to help you find the best solutions for your needs.

AgraCity is more than just a supplier of crop inputs. We view the farming community as integral partners in our mission to transform agriculture in Canada. We will continue to set the bar in the industry by offering superior quality and performance products at competitive prices. Our primary objective is to maintain our independent influence of keeping input costs competitive by growing our high-quality product portfolio that competes with other players in this highly consolidated industry. We strive to remain attentive to your needs, and are unwavering in our commitment to improve and deliver exceptional customer service and support. Our ultimate goal is to earn your trust and become your most reliable supply partner.

Thank you for your continued business and partnership with AgraCity. We wish you a successful and prosperous growing season.

I, and the entire AgraCity team, wish you a successful season in 2023.

Jason Mann  
President, AgraCity



**AgraCity**  
**EMPOWERING YOUR AGRIBUSINESS**



# A HISTORY OF INNOVATION



AgraCity importing urea into Montreal from eastern Europe.



# At AgraCity, constant innovation is at the core of what we do.

AgraCity is Canada's leading solutions provider dedicated to providing the largest selection of vertically integrated, high-quality, direct-to-farm crop inputs and leading-edge agronomy services. **Our comprehensive product portfolio and innovative technology solutions overcome agronomic challenges by improving farmer productivity and profitability to get the most out of every acre.**



## CHANNEL DISRUPTION AND SAVINGS

AgraCity was the first company in Western Canada to offer products directly to farmers, disrupting the traditional distribution channel, and saving farmers millions of dollars in unnecessary warehousing and transportation costs.

## 540 GLYPHOSATE

AgraCity was one of the first companies in the country to bring affordable 540 glyphosate to Canadian farmers, resulting in a price drop of nearly \$2 per acre, with farmers saving millions of dollars in the first year alone as compared to buying brand name glyphosate.

## CLODINAPOP - AURORA® HERBICIDE

AgraCity was one of the first companies to bring a competing brand of clodinafop to farmers in western Canada, resulting in an immediate price decrease of nearly \$4 per acre, immediately saving farmers millions of dollars in the first year.

## AFFORDABLE CROP PROTECTION PRODUCTS

Over the past 15 years AgraCity and its affiliates have invested over \$20 million in the development and registration of over 100 crop protection products. AgraCity now has one of the largest and most complete crop protection portfolios in Canada. We are proud to save farmers millions of dollars every year on their crop input purchases. AgraCity continues to develop new products and expects to bring over 20 new products to market in the next few years.

## NEW FERTILITY PRODUCTS

AgraCity's global network of suppliers means we can bring affordable and new high-performance fertilizer and foliar products like MicroPhos to Canadian farmers.

## EXCLUSIVE NEW CROP PROTECTION PRODUCTS

Because AgraCity has access to a global network of suppliers and a growing portfolio of products, we can combine different high-performance active ingredients to create exclusive new products such as ANACONDA®, BOA® IQ and FOXXY® CRX herbicides. No other company in the industry can do this.

## A CANADIAN COMPANY

Most manufacturers return their profits to countries outside of Canada. AgraCity is Canadian owned and operated, with its head office in Saskatoon, Saskatchewan and business reps located across Canada. The money that farmers spend on AgraCity products and services is recycled back into the Canadian economy for investment in new products, services and solutions that benefit Canadian farmers and the agricultural industry in general.

# PRODUCT DEVELOPMENT PHILOSOPHY



AgraCity is committed to providing Canadian farmers with the largest portfolio of crop protection products in the industry. Our rapidly growing portfolio of affordable high-performance products has been built through collaboration with manufacturers, R&D laboratories, formulation companies, and Canadian farmers.

Our philosophy has always been to bring the highest quality products to Canadian farmers at affordable prices. Each of AgraCity's crop protection products must go through the same rigorous registration process as the major brand manufacturers. plus they must also meet the same high standards of product quality and performance. All AgraCity products must also meet or exceed quality assurance protocols prior to leaving the manufacturing facility and receive further inspection upon arrival in Canada before being packaged and sold. Products that do not meet standards of both quality and performance, will not be provided to farmers at any price.

## AGRACITY EXCLUSIVE HIGH-PERFORMANCE PRODUCTS

Canadian farmers face unique production challenges that require unique solutions. We have worked alongside our farmers to develop over 25 unique crop protection solutions that specifically meet the challenges on Canadian farms. We have also developed our first line of crop nutrition products specifically designed for Canada's environment and soil zones as well as the nutritional requirements of Canadian crops. We will continue to listen to our farm partners to understand the challenges on their farms and to develop the best products in the industry to meet those challenges.

## RESEARCH & DEVELOPMENT

AgraCity will be expanding product development capabilities through our in-house Research & Development team, which will greatly

increase our ability to test and evaluate new concepts, technologies, and products at our research sites across Western Canada.

With over 100 new products developed in the past several years, and even more new products planned for the near future, AgraCity is looking forward to providing farmers with newer solutions, and with the quality and performance they are looking for, and always at an affordable price.





## PRODUCT PERFORMANCE GUARANTEE

AgraCity products provide affordable, effective, high performance control of the toughest weeds in all major crops grown in Canada.

We stand behind our products.

We are so confident in our product and product performance that we are willing to provide our customers with the **AGRACITY PRODUCT PERFORMANCE GUARANTEE**.

AgraCity has the largest selection of affordable high-performance crop protection products in Canada.

We are committed to providing all our products at the best possible prices without compromising product quality and performance by setting and meeting the highest possible standards and working with the best product manufacturers from around the world.

### OUR PRODUCTS ARE:

- Registered for use for all major crops in Canada, including barley, canola, corn, oats, peas, soybeans, wheat and more.
- Designed to provide high performance at affordable prices.
- Excellent for managing key driver weeds like wild oats, kochia, cleavers, and thistle, including biotypes that have developed resistance to major herbicide groups.
- Guaranteed to perform under Canadian growing conditions.

### AGRACITY PRODUCT PERFORMANCE GUARANTEE:

AgraCity guarantees that the products that we sell, will meet our customers' expectations for quality and product performance.

#### PRODUCT QUALITY:

- AgraCity guarantees that our product formulations meet the highest possible standards.
- If at any time you are not satisfied with the product formulation, such as product separation, crystallization, or any physical issue the product will immediately be replaced as soon as possible.

#### DETAILS:

##### PRODUCT QUALITY:

An authorized AgraCity representative must be notified immediately if the concern is about AgraCity product quality.

##### NON-PERFORMANCE:

- **Only herbicide products purchased from AgraCity are eligible for the product performance guarantee. Boa Pro, Disruptor 540 glyphosate, Destroyer 540 glyphosate and Meteor are not included.**
- All products must be applied according to label instructions and application guidelines.
- An authorized AgraCity representative must be notified within 21 days of application if the concern is about product performance, in order to inspect the sprayed area prior to making a second application. The authorized AgraCity representative must confirm that the product did not meet the required 90% control of emerged weeds at the time of application.
- Weeds that are smaller or larger than specified on the label at the time of application or are not present at the time of application do not qualify for the Product Performance Guarantee.
- If 90% control is not met and there is time for a second application, AgraCity will provide the product required for remedial application on the required acres.

#### PRODUCT PERFORMANCE:

- AgraCity guarantees that our herbicide products will provide 90% control or more of all weeds listed as controlled on the product label. This performance guarantee does not apply to weeds listed as suppressed or weeds biotypes resistant to the herbicide group applied. Boa® Pro herbicide, Disruptor® 360 glyphosate herbicide, Disruptor® 540 glyphosate herbicide, Destroyer™ 540 glyphosate herbicide and Meteor® herbicide are not covered by the AgraCity Product Performance Guarantee.
- If 90% control is not met and the crop is beyond the application window for a second application, AgraCity will provide replacement product for the required acres for future years.
- All replacement product is subject to final approval of AgraCity and AgraCity reserves the right to audit all claims. AgraCity reserves the right to change any or all features of the AgraCity Product Performance Guarantee at any time. Accounts must be paid in full before qualifying for assistance towards respray or product replacement.
- No other costs related to retreatment are the responsibility of AgraCity.
- Always read and follow label directions. Not following the label directions will result in non-qualification for the AgraCity Product Performance Guarantee.
- Consult your AgraCity representative to learn more about the AgraCity Product Performance Guarantee.



HERBICIDES				Canola	Cereals	Pulse & Flax	Corn & Soybeans	Horticulture
AGRACITY PRODUCT	PAGE	ACTIVE INGREDIENT	SAME ACTIVE(S) AS					
Disruptor® 540	11	Glyphosate 540 g/L	Roundup®					
Destroyer® 540	13	Glyphosate 540 g/L	Roundup®					
Ammo®	15	Dicamba	Banvel®					
Ammo® Extra	17	Tribenuron-methyl + Dicamba	<b>AgraCity Exclusive</b>					
BattleFront®	19	Florasulam	PrePass™ Flex					
Himalaya® Extra	21	Flucarbazone + Tribenuron	Inferno® Duo					
Himalaya® Pass	23	Flucarbazone + Florasulam	<b>AgraCity Exclusive</b>					
MPower® Extra	25	Tribenuron	Express®					
Pilot®	27	Dicamba + Florasulam	Korrex™					
Revenge®	29	Carfentrazone	Aim®					
Revenge® A	31	Carfentrazone + Dicamba	<b>AgraCity Exclusive</b>					
Revenge® AE	33	Carfentrazone + Tribenuron + Dicamba	<b>AgraCity Exclusive</b>					
Revenge® E	35	Carfentrazone + Tribenuron	<b>AgraCity Exclusive</b>					
Ace® II	37	Pinoxaden	Axial®					
Anaconda®	39	Imazamox + Bentazon + Quizalofop	<b>AgraCity Exclusive</b>					
Aurora®	41	Clodinafop	Horizon®					
Aurora® Extreme	43	Clodinafop	<b>AgraCity Exclusive</b>					
Aviator®	45	Decamba + Fluroxypyr + Thifensulfuron + Tribenuron	Pulsar® + Rumour®					
Battlestar®	47	Florasulam + Fluroxypyr	<b>AgraCity Exclusive</b>					
Boa®	49	Bentazon	Basagran®					
Boa® IQ	51	Bentazon + Quizalofop	<b>AgraCity Exclusive</b>					
Boa® Pro	53	Bentazon + Imazamox	Viper®					
Canuck®	55	Bromoxynil + MCPA Ester	Buctril® M					
Clobber®	57	Clopyralid	Lontrel®					
Clobber® M	59	Clopyralid + MCPA	Curtail® M					
Deathstar™	61	Florasulam + Fluroxypyr	<b>AgraCity Exclusive</b>					
Denali® CM	63	Flucarbazone + Fluroxypyr + Clopyralid + MCPA Ester	<b>AgraCity Exclusive</b>					
Foxy® CM	65	Fluroxypyr + Clopyralid + MCPA Ester	Prestige™					
Foxy® CRX	67	Fluroxypyr + Thifensulfuron + Tribenuron + Clopyralid	<b>AgraCity Exclusive</b>					
Foxy® KO	69	Fluroxypyr + 2,4-D Ester	<b>AgraCity Exclusive</b>					
Foxy® M	71	Fluroxypyr + MCPA Ester	Trophy®					
Foxy® MR	73	Fluroxypyr + Thifensulfuron + Tribenuron + MCPA Ester	<b>AgraCity Exclusive</b>					
Foxy® Pro	75	Fluroxypyr + 2,4-D Ester 700	OctTain™					
Foxy® Pro RX	77	Fluroxypyr+ Thifensulfuron + Tribenuron + 2,4-D Ester	<b>AgraCity Exclusive</b>					
Foxy® R	79	Fluroxypyr + Thifensulfuron + Tribenuron	Barricade®					
Foxy® RCK	81	Fluroxypyr + Thifensulfuron + Tribenuron	<b>AgraCity Exclusive</b>					
Hellcat®	83	Fenoxaprop	Puma®					
Himalaya®	85	Flucarbazone	Everest®					
Independence®	87	Clethodim	Select® and Centurion®					

HERBICIDES				Canola	Cereals	Pulse & Flax	Corn & Soybeans	Horticulture
AGRACITY PRODUCT	PAGE	ACTIVE INGREDIENT	SAME ACTIVE(S) AS					
Kamikaze®	89	Imazethapyr	Pursuit®					
Meteor®	91	Metribuzin	Sencor®					
MCPA Ester 600	93	MCPA Ester 600	MCPA Ester 600					
MPower® 2, 4-D Ester 700	95	2, 4-D Ester 700	2, 4-D Ester 700					
MPower® Pro	97	Metsulfuron	Ally®					
MPower® RX	99	Thifensulfuron + Tribenuron	Refine®					
Ninja®	101	Imazamox + Imazethapyr	Odyssey®					
Ninja® Master	103	Imazamox + Imazethapyr + Clethodim	Odyssey® + Select®					
Quiz®	105	Quizalofop	Assure®					
Samurai®	107	Imazamox	Solo®					
Samurai® Master	109	Imazamox + Clethodim	AgraCity Exclusive					
FUNGICIDES								
Fusaro™	111	Prothioconazole + Tebuconazole	Prosaro®					
Modo	113	Propiconazole	Tilt®					
Quasi	115	Azoxystrobin	Quadris®					
Rambler®	117	Prothioconazole	Proline					
Rambler® Pro	119	Azoxystrobin + Prothioconazole	AgraCity Exclusive					
Revenue® Q	121	Difenoconazole + Azoxystrobin	Quadris Top®					
Spade®	123	Pyraclostrobin	Headline®					
Spade® Plus	125	Pyraclostrobin + Boron	AgraCity Exclusive					
Spaxor™	127	Prothioconazole + Pyraclostrobin	AgraCity Exclusive					
Tornado®	129	Tebuconazole	Folicur®					
Tornado® Pro	131	Tebuconazole + Pyraclostrobin	AgraCity Exclusive					
DESICCANTS								
Clone®	133	Diquat	Reglone®					
SURFACTANTS AND WATER CONDITIONERS								
AGRACITY PRODUCT	PAGE	DESCRIPTION	COMPARE TO					
Assassin® II	135	Surfactant blend 50%	Merge®					
Chem Spray®	135	Paraffin base petroleum oil with a Surfactant blend	Score®					
Empire® II	135	Phosphate Ester Surfactant	Amigo®					
Non-Ionic Surfactant	136							
UAN 28%	136	28-0-0						
FOLIARS AND FERTILIZERS								
AGRACITY PRODUCT	PAGE	DESCRIPTION						
Canola Max	138	Maximizes early season canola growth						
Health Max	138	Overcome stress to keep plants healthy						
Pod Max	138	Maximize pod fill in canola						
Protein Max	138	Maximize the protein levels in cereals						
Pulse Max	138	Maximize pollination in pulses						
Micro-Phos Micro-Pak	139	11 N-39 P-0 K- 6 S, 1.0 Zn, Mo, Mn, B						
Micro-Phos Canola	140	10N-29P-0-22S + Bo						
Micr- Phos Canola Plus	140	10N-25P-0-25S + Bo						

## WEED PROTECTION CHART



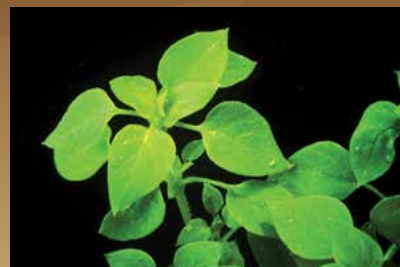
### ANNUAL SOW-THISTLE

Battlefront®	Aviator®
Foxy® CRX	Clobber® M
Victus™	Foxy® CM



### DANDELION

Battlefront®	Deathstar™
Himalaya® Pass	Clobber® M
Aviator®	Foxy® CM



### CHICKWEED

Battlefront®	Foxy® CRX
Himalaya® Pass	Foxy® Pro RX
Battlestar™	Ninja® Master



### CORN SPURRY

Disruptor®	Foxy® CRX
Revenge®	Foxy® Pro RX
Boa® IQ	Aviator®



### WILD OATS

Hellcat®	Himalaya®
Anaconda®	Ace®
Aurora® Extreme	Quiz®



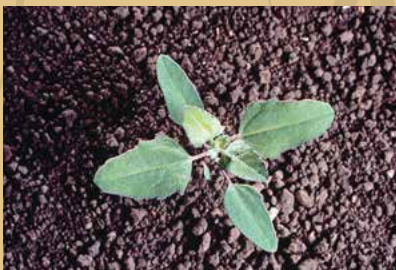
### NARROW-LEAVED HAWK'S-BEARD

Revenge® E	MPower® Extra
Himalaya® Extra	Foxy® CRX
Battlefront®	Foxy® Pro RX



### STINKWEED

Foxy® Pro	Foxy® Canuck®
Battlefront®	Anaconda®
Deathstar™	Foxy® RCK



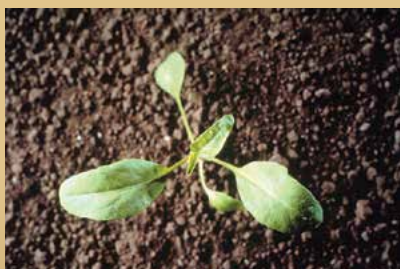
### LAMB'S-QUARTERS

Revenge®	Foxy® CRX
Revenge® E	Foxy® RCK
Foxy® Canuck®	Boa® IQ



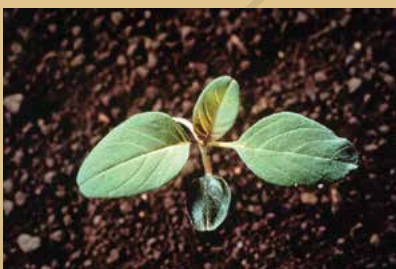
### CANADA THISTLE

Pilot®	Clobber® M
Clobber®	Foxy® CM
Ammo®	Foxy® CRX



### SHEPHERD'S-PURSE

Battlefront®	Deathstar™
Foxy® Canuck®	Foxy® CRX
Ninja® Master	Anaconda®



### REDROOT PIGWEED

Revenge®	Foxy® CM
Revenge® E	Foxy® CRX
Anaconda®	Aviator®



### HEMP-NETTLE

Battlefront®	Foxy® RCK
Foxy® CRX	Battlefront®
Foxy® Pro RX	Victus™



# CROP CATEGORY INDEX

 Canola
  Cereals
  Pulses & Flax
  Corn & Soybeans
 



## CLEAVERS

Battlefront®		Foxy® CRX	
Boa® IQ		Foxy® Pro	
Deathstar™		Foxy® RCK	









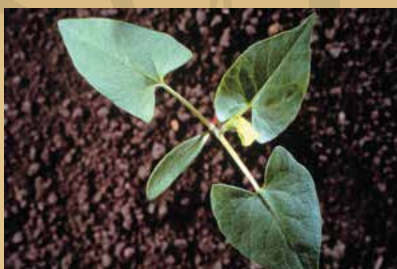
## KOCHIA

Revenge®		Deathstar	
Revenge® E		Foxy® Pro	
Foxy® Buck M		Foxy® RCK	



## STORK'S-BILL

Ammo® DR		Deathstar	
Boa® IQ		Ninja® Master	
Foxy® Pro		Foxy® RCK	



## WILD BUCKWHEAT

Battlestar®		Foxy® RCK	
Battlefront®		Himalaya® Trio	
Foxy® CRX		Pilot®	



## ROUND-LEAVED MALLOW

Revenge®		Foxy® CRX	
Revenge® E		Victus™	
Foxy® CM		Disruptor®	



## PERENNIAL SOW-THISTLE

Ammo® DR		Clobber®	
Foxy® Canuck®		Deathstar™	
Foxy® CM		Pilot®	



## GREEN FOXTAIL

Anaconda®		Himalaya®	
Aurora® Extreme		Independence®	
Hellcat®		Ace®	



## FLIXWEED

MPower® Extra		Foxy® CRX	
Revenge® E		Aviator®	
Foxy® CM		Ninja® Master	



## SMARTWEED

Himalaya® Pass		Foxy® RCK	
Deathstar™		Foxy® CM	
Anaconda®		Pilot®	



## VOLUNTEER CANOLA

Battlefront®		Revenge® E	
MPower® Extra		Deathstar™	
Ninja® Master		Foxy® CRX	



## RUSSIAN THISTLE

Anaconda®		Aviator®	
Ammo® Extra		Samurai® Master	
Foxy® CRX		Victus™	



## SCENTLESS CHAMOMILE

Battlefront®		Clobber®	
Pilot®		Foxy® CM	
Foxy® Canuck®		Victus™	

# DISRUPTOR<sup>®</sup> 540

**SAME ACTIVE AS ROUNDUP<sup>®</sup>**  
**Glyphosate Herbicide**

GROUP  
9

## WHY USE DISRUPTOR<sup>®</sup> 540?

- Same active as Roundup RT 540
- Potassium salt 540-gram formulation glyphosate
- Ethoxylated tallow amine (ETA) surfactant for consistent, reliable performance under a wide range of conditions
- Proven control of annual and perennial grass and broadleaf weeds
- Controls the same weed spectrum as other glyphosates
- Use in all soil-zones
- Use on all glyphosate-tolerant crops
- Systemic mode of action
- Numerous tank mix options
- No-recropping restrictions
- Trusted, dependable, high performance 540 glyphosate at an affordable price

## FOR USE ON

- Pre-seed
- Summerfallow
- Pre-harvest and post-harvest applications
- Registered glyphosate tolerant crops
- Non-crop and industrial uses

## WEEDS

### CONTROLLED

- Same weeds controlled as Roundup
- See product label for a complete list of weeds controlled



**DISRUPTOR 540** HERBICIDE

SAME ACTIVE AS ROUNDUP

**REQUIRED SURFACTANT**

- None required

**ACTIVE INGREDIENT**

- Glyphosate 540 g/L soluble concentrate (SC) present as potassium salt

**PACKAGE SIZE**

- 500 L tote
- 1,000 L tote

**WHEN TO APPLY**

- **Pre-seed**
- **Summerfallow**
- **Pre-harvest**
- **Post-harvest**
- **Glyphosate-tolerant canola:** Cotyledon to 6 leaf
- **Glyphosate-tolerant soybeans:** First trifoliolate to flowering
- **Glyphosate-tolerant corn:** Up to 8 leaves

**WATER VOLUME**

- Recommended water volume is crop and use specific. See label for use guidelines

**RAINFAST PERIOD**

- 1 hour

**RE-CROPPING OPTIONS**

- Grow all major crops the year after application

**TANK MIX OPTIONS\***

- Tank mixes are crop and use specific. See label for tank mix recommendations

**STORAGE**

- Heated storage is not required. If product is frozen warm to room temperature and agitate before use. Avoid contamination of seed, feed, and foodstuff.

**GRAZING AND HARVEST**

- All portions of treated crops may be fed to livestock
- No preharvest interval is indicated

**MIXING INSTRUCTIONS**

1. Fill the spray tank 1/2 full of water, begin agitation and continue through mixing and application.
2. Add the required amount of dry tank mix partner products.
3. Add the required amount of soluble concentrate or liquid tank mix partner products.
4. Add the required amount of **Disruptor 540** glyphosate.
5. Add the required amount of surfactant if required.
6. Complete filling of the tank and apply.
7. Refer to tank mix partner labels for specific tank mix guidelines.

**UNDERSTANDING PERFORMANCE**

- For best performance apply glyphosate during warm moist growing conditions when temperatures are between 12°C and 24°C.
- Wilting and yellowing of annual weeds will occur within 2-4 days, perennials require 7-10 days or longer depending on growing conditions. Control of weeds may take 3-4 weeks depending on conditions.
- Control may be slowed or reduced under cool, wet cloudy conditions or if plants are stressed by drought, frost, or other stress conditions.
- Hard water or water containing calcium (Ca<sup>+</sup>), magnesium (Mg<sup>+</sup>), or iron (Fe<sup>+</sup>) ions will reduce activity.
- Dirty water or water with suspended soil or organic matter will reduce control.

Always read and follow all label precautions and directions.

\*When applying tank mix combinations, always follow all label requirements for each product used in the tank mix. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

Disruptor® is a trademark of AgraCity or its affiliates. All other products are trademarks of their respective holders.

NOTE: Disruptor 540 glyphosate is not covered by the AgraCity Product Performance Guarantee



# DESTROYER® 540 HERBICIDE

GROUP  
9

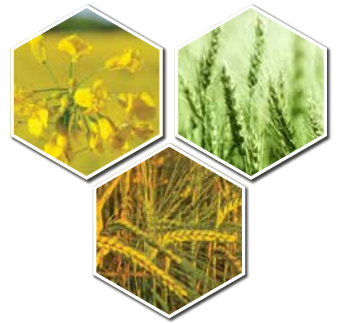
**SAME ACTIVE AS ROUNDUP®**  
**Glyphosate Herbicide**

## WHY USE DESTROYER 540?

- Same active as Roundup
- Potassium salt 540-gram formulation glyphosate
- Contains alkyl phosphate ester surfactant
- Controls annual and perennial grass and broadleaf weeds
- Controls the same weed spectrum as other glyphosates
- Use in all soil zones
- Use on registered glyphosate tolerant crops
- Systemic mode of action
- Numerous tank mix options
- No re-cropping restrictions
- Affordable 540 glyphosate choice

## FOR USE ON

- Pre-seed
- Summerfallow
- Pre-harvest and post-harvest applications
- Registered glyphosate-tolerant crops
- Non-crop and industrial uses



## WEEDS

### CONTROLLED

- Same weeds controlled as Roundup
- See product label for a complete list of weeds controlled



**DESTROYER 540** HERBICIDE

SAME ACTIVE AS ROUNDUP

**REQUIRED SURFACTANT**

- None required

**ACTIVE INGREDIENT**

- Glyphosate 540 g/L soluble concentrate (SC) present as potassium salt

**PACKAGE SIZE**

- 500 L tote
- 1,000 L tote

**WHEN TO APPLY**

- Pre-seed
- Summerfallow
- Pre-harvest
- Post-harvest
- **Glyphosate-tolerant canola:** Cotyledon to 6 leaf
- **Glyphosate-tolerant soybeans:** First trifoliolate to flowering
- **Glyphosate-tolerant corn:** Up to 8 leaves

**WATER VOLUME**

- Recommended water volume is crop and use specific. See product label for use guidelines

**RAINFEST PERIOD**

- 1 hour

**RE-CROPPING OPTIONS**

- Grow all major crops the year after application

**TANK MIX OPTIONS\***

- Tank mixes are crop and use specific. See product label for tank mix recommendations

**STORAGE**

- Heated storage is not required. If product is frozen warm to room temperature and agitate before use. Avoid contamination of seed, feed, and foodstuffs

**GRAZING AND HARVEST**

- All portions of treated crops may be fed to livestock
- No preharvest interval is indicated.

**MIXING INSTRUCTIONS**

1. Fill the spray tank 1/2 full of water, begin agitation and continue through mixing and application.
2. Add the required amount of dry tank mix partner products.
3. Add the required amount of soluble concentrate or liquid tank mix partner products.
4. Add the required amount of **Destroyer** glyphosate.
5. Add the required amount of surfactant if required.
6. Complete filling of the tank and apply.
7. Refer to tank mix partner labels for specific tank mix guidelines.

**UNDERSTANDING PERFORMANCE**

- For best performance apply glyphosate during warm moist growing conditions when temperatures are between 12°C and 24° C.
- Wilting and yellowing of annual weeds will occur within 2-4 days, perennials require 7-10 days or longer depending on growing conditions. Control of weeds may take 3-4 weeks depending on conditions.
- Control may be slowed or reduced under cool, wet, cloudy conditions or if plants are stressed by drought, frost, or other stress conditions.
- Hard water or water containing calcium (Ca+), magnesium (Mg+), or iron (Fe+) ions will reduce activity.
- Dirty water or water with suspended soil or organic matter will reduce control.

Always read and follow all label precautions and directions.

\*When applying tank mix combinations, always follow all label requirements for each product used in the tank mix. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

Destroyer® is a trademark of AgraCity or its affiliates. All other products are trademarks of their respective holders.

NOTE: Destroyer 540 glyphosate is not covered by the AgraCity Product Performance Guarantee

# AMMO<sup>®</sup> HERBICIDE

**SAME ACTIVE AS BANVEL<sup>®</sup>**  
**Dicamba Herbicide**

## WHY USE AMMO?

- Same active as Banvel
- Proven control of kochia, cow cockle, smartweed and wild buckwheat.
- Controls Group 2 and Group 9 resistant kochia
- Controls or suppresses multiple broadleaf weeds
- Use in all soil zones
- Flexible application timing: pre-seed, chemfallow or fall stubble
- Systemic modes of action for dependable control + resistance management
- No re-cropping restrictions the following year if used for pre-seed
- Dependable pre-seed or summerfallow control of broadleaf or perennial weeds at an affordable price

## FOR USE ON

- Pre-seed ahead of spring wheat, durum wheat, barley, oats, and field corn only
- Chem-fallow, summerfallow, stubble
- See label for additional product uses and application rates



## WEEDS

### CONTROLLED IN PRE-SEED

**At 127 ml/acre when mixed with glyphosate acid equivalent at 0.375 L/acre (360 gm a.i./L formulation)**

- |                                     |                   |                                 |                                   |
|-------------------------------------|-------------------|---------------------------------|-----------------------------------|
| • Cleavers <sup>1</sup> (1-4 whorl) | • Green foxtail   | • Redroot pigweed               | • Volunteer cereals               |
| • Cow cockle                        | • Kochia          | • Russian thistle               | • Wild buckwheat (1-4 leaf stage) |
| • Downy brome                       | • Lady's-thumb    | • Smartweed                     | • Wild oats                       |
| • Flixweed <sup>2</sup>             | • Lamb's-quarters | • Stinkweed <sup>2</sup>        | • Wild mustard                    |
| • Foxtail barley <sup>4</sup>       | • Persian darnel  | • Volunteer canola <sup>3</sup> |                                   |

<sup>1</sup> Suppression only

<sup>2</sup> For optimal control 2,4-D should be applied in the fall prior

<sup>3</sup> Requires addition of 2,4-D or MCPA Ester for RR volunteers

<sup>4</sup> Apply before initiation of seed head or browning of lower leaves

### CONTROLLED IN SUMMERFALLOW

**At 0.5 L/acre when mixed with glyphosate acid equivalent at 0.75 L/acre (360 gm a.i./L formulation)**

- |                            |                         |                                       |
|----------------------------|-------------------------|---------------------------------------|
| • Canada thistle           | • Field bindweed        | • Tansy ragwort                       |
| • Curled dock <sup>1</sup> | • Goldenrod             | • Plus weeds controlled by glyphosate |
| • English daisy            | • Perennial sow thistle |                                       |

<sup>1</sup> Top growth only





**AMMO** HERBICIDE

SAME ACTIVE AS BANVEL

**REQUIRED SURFACTANT**

- Agral® 90 or another non-ionic surfactant at 5 L per 1,000 L water

**ACTIVE INGREDIENT**

- Dicamba 480 g/L solution

**PACKAGE SIZE**

- **Case:**  
160 acres (pre-seed)  
40 acres (summerfallow)
- See label for list of rates by use and crop

**WHEN TO APPLY**

- **Crop stage:** Immediately prior to seeding
- **Weed stage** (Pre-seed):  
**Grass weeds:** Emergence to heading  
**Broadleaf weeds:** Up to 15 cm in height
- **Weed stage** (Summerfallow or stubble): See label for weed specific application timing.

**WATER VOLUME**

- Minimum 10 US gallons/acre (40 L/acre)

**RAINFALL PERIOD**

- 1 hour

**RE-CROPPING OPTIONS**

- **Pre-seed:** Grow all major crops the year after application.
- **Summerfallow or stubble††:** Canola, cereals, field corn, soybeans, white beans can be grown the year after application
- **Re-cropping options are rate dependent** – See label for details

††If application occurs after September 1, or if soil moisture conditions are low after application, crop injury may occur the following year.

**TANK MIX OPTIONS\***

- **Disruptor® 540 glyphosate†, Destroyer® 540 glyphosate†, 2,4-D Ester or MCPA Ester**

**STORAGE**

- If frozen shake thoroughly before use

**GRAZING AND HARVEST**

- Harvest forage or cut hay 30 days after application
- Lactating dairy animals may graze fields 7 days after application.
- Withdraw meat animals from treated fields at least 3 days before slaughter.

**MIXING INSTRUCTIONS**

1. Fill the spray tank 1/2 full of water, begin agitation and continue throughout mixing and application process.
2. Add the required rate of **Ammo**.
3. If required, add the correct rate of 2,4-D Ester or MCPA Ester.
4. Add the required rate of **Disruptor or Destroyer glyphosate**.
5. Add any required surfactant, complete filling with water and apply.
6. If application is stopped prior to completion, re-suspend spray solution by full agitation prior to commencing spraying again.

**UNDERSTANDING PERFORMANCE**

- Optimal control occurs when applied between 10°C and 25°C in warm moist growing conditions when weeds are small and actively growing.
- For Canada thistle and perennial sow thistle, rosette control in summerfallow and stubble, perform final tillage in the last week in July or first weed in August, let thistles re-grow for a minimum of 4 weeks, and apply before thistles reach early bud stage (15-25 cm tall) and at least 2 weeks prior to a killing frost.
- Typical symptoms (curled leaves, twisted stems, swollen nodes, cupped leaves) of dying weeds may not be noticeable for 10-14 days after application depending upon growing conditions. Control of weeds may take 3-4 weeks.
- For field corn, do not use on sandy or sandy loam soil with less than 2.5% organic matter.
- Avoid application when crop is under stress from adverse environmental conditions. Do not spray if risk of frost or severe drop in nighttime temperatures is forecast. Do not use on bentgrass. Apply only at recommended stages, otherwise crop damage may occur.
- Under certain stress conditions, such as drought, cool temperatures or where extremely hard water (> 700 ppm Ca + Mg) will be used, use 5 US gallons/acre of water with this tank mix to help improve results.
- Dicamba may drift into susceptible crops and result in injury. Do not apply in conditions favoring thermal inversions, or when winds are blowing towards susceptible crops or greenery

Always read and follow all label precautions and directions.

\*When applying tank mix combinations, always follow all label requirements for each product used in the tank mix. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

†Supported by AgraCity.

Ammo®, Destroyer®, and Disruptor® are trademarks of AgraCity or its affiliates. All other products are trademarks of their respective holders.

# AMMO<sup>®</sup> EXTRA HERBICIDE

## AGRACITY EXCLUSIVE PRODUCT Tribenuron-methyl + Dicamba Herbicide

### WHY USE AMMO EXTRA?

- Agracity Exclusive Product - contains a higher rate of dicamba, specifically designed for control of Group 2 resistant kochia
- Enhanced control of dandelion, narrow-leaved hawk's-beard and kochia
- Controls or suppresses 25 broadleaf and grass weeds when mixed with glyphosate (all types)
- Use in all soil zones
- Multiple systemic modes of action for resistance management
- Tank mix with any glyphosate
- No re-cropping restrictions the year after application
- Great value and price for reduced tillage weed control

## FOR USE ON

Reduced tillage fallow. Spring wheat, durum wheat, barley may be seeded after application.

## WEEDS

### CONTROLLED\*

When mixed with glyphosate acid equivalent at 0.5 L/acre (360 gm a.i./L)

#### Weeds up to 8 cm

- Canada fleabane
- Common ragweed
- Narrow-leaved hawk's beard

#### Weeds up to 3 leaf

- Cow cockle
- Wild buckwheat

#### Rosette

- Canada thistle<sup>3</sup>

#### Weeds up to 15 cm

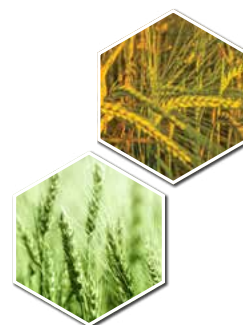
- Dandelion
- Downy brome
- Flixweed
- Giant foxtail
- Green foxtail
- Hemp-nettle
- Kochia<sup>1</sup>
- Lady's thumb
- Lamb's-quarters
- Persian darnel
- Redroot pigweed
- Russian thistle
- Stinkweed
- Volunteer barley
- Volunteer canola<sup>2</sup>
- Volunteer flax
- Volunteer wheat
- Wild mustard
- Wild oats

\* Requires the addition of 372 ml/acre 2,4-D Ester 600

<sup>1</sup> Including Group 2 resistant biotypes

<sup>2</sup> Including all HT varieties

<sup>3</sup> Suppression



**AMMO EXTRA** HERBICIDE

AGRICITY EXCLUSIVE PRODUCT

**REQUIRED SURFACTANT**

- None required when used with glyphosate

**ACTIVE INGREDIENTS**

- Tribenuron-methyl 75% dry flowable (DF)
- Dicamba 480 g/L solution

**PACKAGE SIZE**

- **Case:** 160 acres

**WHEN TO APPLY**

- When seedling weeds have emerged and are actively growing

**WATER VOLUME**

- 5-10 US gallons/acre (20-40 L/acre)

**RAINFAST PERIOD**

- 1 hour

**RE-CROPPING OPTIONS**

- Grow all major crops the year after application

**TANK MIX OPTIONS\***

- **Disruptor® 540 glyphosate†**, **Destroyer® 540 glyphosate†**

**STORAGE**

- Product can be frozen

**GRAZING AND HARVEST**

- Graze or feed livestock 7 days after application
- No pre-harvest interval for registered crops

**MIXING INSTRUCTIONS**

1. Fill the spray tank 1/2 full of clean water, begin agitation and continue throughout mixing and application process.
2. Add the required rate of **MPower® Extra** and agitate until product is fully dissolved.
3. Add the required amount of **Ammo**.
4. Add the required amount of **Disruptor or Destroyer glyphosate**.
5. Add any other required products or surfactants, complete filling the remainder of the tank with water and apply.
6. Product must be applied within 24 hours in order to remain effective.
7. If application is stopped prior to completion, re-suspend spray solution by full agitation prior to commencing spraying again.

**UNDERSTANDING PERFORMANCE**

- Use 50 mesh or larger screens in spraying equipment.
- **Ammo Extra** must be mixed with glyphosate.
- Optimum control will occur during warm moist conditions when weeds are actively growing. Degree and duration of control will depend on weed sensitivity, weed size, spray coverage and growing conditions.
- For best results, ensure thorough spray coverage of target weeds, use higher water volumes for heavier weed pressure.
- Weeds hardened off by cold weather or drought stress may not be adequately controlled or suppressed and regrowth may occur.
- Application to fields impacted by severe weather conditions, drought, frost, low fertility, water-logged soil (soil at or near field capacity), disease or insect damage may result in reduced or delayed performance or injury on succeeding crops.
- Do not use on highly variable soils that have large gravelly or sandy areas, eroded knolls, calcium deposits, or soils with less than 3% organic matter.
- Product effectiveness will be reduced if left in the sprayer for more than 24 hours after mixing.

Always read and follow all label precautions and directions.

\*When applying tank mix combinations, always follow all label requirements for each product used in the tank mix. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

†Supported by AgraCity.

Ammo®, Destroyer®, Disruptor® and MPower® are trademarks of AgraCity or its affiliates. All other products are trademarks of their respective holders.



# BATTLEFRONT® HERBICIDE

**SAME ACTIVE AS PREPASS™ FLEX**  
**Florasulam Herbicide**

## WHY USE BATTLEFRONT?

- Same active as PrePass Flex
- Dependable pre-seed and post-harvest weed control of dandelion (top growth), narrow-leaved hawk's-beard, volunteer canola (all types) and wild buckwheat when mixed with **Disruptor®** and **Destroyer®** glyphosate.
- Control or suppression of 38 grass and broadleaf weeds when mixed with **Disruptor®** and **Destroyer®** glyphosate
- Use in all soil zones
- Spring or fall application flexibility
- Excellent pre-seed crop safety
- Low rate, easy to use
- High performance, broad-spectrum cereal pre-seed weed control at an affordable price

## FOR USE ON

- Prior to seeding spring wheat, durum wheat, winter wheat, barley, oats

## WEEDS

### CONTROLLED

When mixed with glyphosate.

- |                                   |                                    |
|-----------------------------------|------------------------------------|
| • Annual blue grass <sup>1</sup>  | • Narrow-leaved vetch <sup>1</sup> |
| • Annual sow thistle <sup>1</sup> | • Persian dandel                   |
| • Canada fleabane                 | • Prickly lettuce <sup>1</sup>     |
| • Canada thistle <sup>1</sup>     | • Quackgrass <sup>1</sup>          |
| • Chickweed                       | • Ragweed                          |
| • Cleavers                        | • Redroot pigweed                  |
| • Cow cockle                      | • Russian thistle                  |
| • Crabgrass <sup>1</sup>          | • Scentless chamomile              |
| • Dandelion <sup>1,2</sup>        | • Shepherd's purse                 |
| • Downy brome                     | • Smartweed                        |
| • Flixweed                        | • Stinkweed                        |
| • Foxtail barley <sup>1</sup>     | • Toadflax <sup>1</sup>            |
| • Giant foxtail                   | • Volunteer barley                 |
| • Green foxtail                   | • Volunteer canola (all HT types)  |
| • Hemp-nettle                     | • Volunteer flax                   |
| • Kochia <sup>3</sup>             | • Volunteer wheat                  |
| • Lady's thumb                    | • Wild buckwheat                   |
| • Lamb's-quarters                 | • Wild mustard                     |
| • Narrow-leaved hawk's-beard      | • Wild oats                        |

<sup>1</sup> With additional glyphosate; refer to label to rates

<sup>2</sup> Top growth control, up to 15 cm

<sup>3</sup> Not including biotypes resistant to Group 2 and 9

### SUPPRESSED

- Annual sow thistle
- Perennial sow thistle



**BATTLEFRONT** HERBICIDE

SAME ACTIVE AS PREPASS FLEX

**REQUIRED SURFACTANT**

- None required when mixed with glyphosate

**ACTIVE INGREDIENTS**

- Florasulam 50 g/L suspension concentrate (SC)

**PACKAGE SIZE**

- **Bulk:** 320 acres

**WHEN TO APPLY**

- **Spring:** Prior to seeding, or no later than 48 hours after seeding (before emergence)
- **Fall:** After harvest to freeze up

**WATER VOLUME**

- 10 US gallons/acre (40 L/acre)

**RAINFAST PERIOD**

- 2 hours

**RE-CROPPING OPTIONS**

- **1 day after application:** Wheat (spring, durum, winter), barley, or oats
- **When applied as a chem fallow treatment prior to August 1st:** Wheat (spring, durum, winter), barley, canola, peas, and oats may be seeded the following spring
- **When applied to fields after August 1st:** Winter wheat may be seeded at least 1 day after application, or wheat, barley, or oats the following spring

**TANK MIX OPTIONS\***

- **Disruptor** and **Destroyer** herbicides or other glyphosates<sup>†</sup>

**STORAGE**

- Store in dry, heated area. If product is frozen, allow to warm at room temperature for a few days and agitate before use.

**GRAZING AND HARVEST**

- Livestock may be grazed on treated crops 7 days following application.
- Withdraw meat animals from treated areas at least 3 days before slaughter.
- Allow 30 days after application before cutting hay or harvesting silage.
- Mature crop can be harvested 60 days after application.

**MIXING INSTRUCTIONS**

1. Fill the spray tank 1/2 full of water, begin agitation and continue throughout mixing and application process.
2. Add the required amount of **Battlefront** and mix thoroughly.
3. Add the required amount of **Disruptor®** or **Destroyer®** glyphosate.
4. Add the required amount of surfactant if needed and apply.
5. If application is stopped prior to completion, re-suspend spray solution by full agitation prior to commencing spraying again.

**UNDERSTANDING PERFORMANCE**

- Optimal control occurs in warm moist conditions which promotes weed growth and herbicide activity.
- Typical symptoms (discoloration) of dying weeds may not be noticeable for 1 to 2 weeks after application, depending upon growing conditions and weed susceptibility. Control of weeds may take 4-6 weeks.
- Extreme growing conditions such as drought or near freezing temperatures prior to, at or following time of application may reduce weed control or increase weed re-growth.
- Weeds that have emerged at the time of application will be affected. If foliage is wet at the time of application, control may be decreased. Under conditions of high weed density, control may be reduced.
- Weed escapes may occur under prolonged stress conditions or low fertility. Do not make applications to weeds stressed longer than 20 days due to lack of moisture as unsatisfactory control can result.
- Do not apply herbicides containing florasulam in-crop the same year that **Battlefront** is applied pre-seed
- Crop injury may occur when growing conditions are poor (marginal soil fertility, saline soils, waterlogged soils, drought, seedling disease) or on variable soils (eroded knolls, sidehills).

Always read and follow all label precautions and directions.

\*When applying tank mix combinations, always follow all label requirements for each product used in the tank mix. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

<sup>†</sup>Supported by AgraCity.

<sup>††</sup>Using K+ salt glyphosates found in 540 glyphosates may result in a paint-like solution in the spray tank. **Battlefront®**, **Destroyer®** and **Disruptor®** are trademarks of AgraCity or its affiliates. All other products are trademarks of their respective holders.

# HIMALAYA® EXTRA HERBICIDE

**SAME ACTIVES AS INFERNO® DUO**  
**Flucarbazone + Tribenuron Herbicide**

## WHY USE HIMALAYA EXTRA?

- Same actives as Inferno Duo
- Enhanced control of dandelion, narrow-leaved hawk's-beard, flixweed, and stinkweed
- Controls or suppresses 25 broadleaf and grass weeds when mixed with glyphosate (all types)
- Extended early season suppression of wild oats
- Option to apply multiple modes on wild oats in the same season
- Use in all soil zones
- Reduced application rate reduces product carry-over
- Tank mix with any glyphosate type
- Great pre-seed option ahead of **Aurora®** or **Hellicat®**
- Great value and affordable price for pre-seed weed control in wheat

## FOR USE ON

- Spring wheat



## WEEDS

### CONTROLLED

When mixed with glyphosate acid equivalent at 0.5 L/acre (360 gm a.i./L)

#### Weeds up to 8 cm

- Canada fleabane
- Common ragweed
- Narrow-leaved hawk's-beard

#### Weeds up to 3 leaf

- Cow cockle
- Wild buckwheat

#### Rosette

- Canada thistle<sup>1</sup>

#### Weeds up to 15 cm

- Dandelion
- Downy brome
- Flixweed
- Giant foxtail
- Green foxtail
- Hemp-nettle
- Kochia<sup>2</sup>
- Lady's thumb
- Lamb's-quarters
- Persian darnel
- Redroot pigweed
- Russian thistle
- Stinkweed
- Volunteer barley
- Volunteer canola<sup>3</sup>
- Volunteer flax
- Volunteer wheat
- Wild mustard
- Wild oats

<sup>1</sup> Suppression

<sup>2</sup> Not including biotypes resistant to Group 2 and 9

<sup>3</sup> Including all HT biotypes





**HIMALAYA EXTRA** HERBICIDE

SAME ACTIVE AS INFERNO DUO

**REQUIRED SURFACTANT**

- None required when mixed with glyphosate
- If used alone Agral® 90 at 2 L per 1,000 L water

**ACTIVE INGREDIENTS**

- Flucarbazone 66% water dispersible granule (WDG)
- Tribenuron-methyl 75% dry flowable (DF)

**PACKAGE SIZE**

- **Case:** 80 acres

**WHEN TO APPLY**

- Up to 1 day prior to seeding

**WATER VOLUME**

- 5-10 US gallons/acre (20-40)

**RE-CROPPING OPTIONS****RE-CROPPING OPTIONS BY SOIL ZONE**

Grey Wooded	Black	Dark Brown	Brown
Spring wheat	Spring wheat	Spring wheat	Spring wheat
Barley	Barley	Barley	
Canola	Canola	Canola	
Field peas*	Field peas*	Field peas*	
	Field beans	Flax	
	Flax	Durum wheat	
	Durum wheat		

\* Field peas can be successfully grown the year after application of Himalaya provided the following three criteria are met:

1. Soil pH must be below 7.5
2. Organic matter content must be above 4%
3. Precipitation must be equal to or above the 10 year average (minimum 100 mm) within 60 days of application in year of application, or fields can be summerfallowed.

**TANK MIX OPTIONS**

- **Disruptor® or Destroyer® glyphosate†**

**STORAGE**

- Product can be frozen

**GRAZING AND HARVEST**

- Do not graze treated fields or use green crop for feed. Wheat grain or straw from harvested treated fields may be fed to livestock
- Mature crop may be harvested 80 days after application

**MIXING INSTRUCTIONS**

1. Fill the spray tank 1/2 full of clean water, begin agitation and continue throughout mixing and application process.
2. Add the required amount of **Himalaya** and continue agitation until product is fully dissolved.
3. Add the required rate of **MPower® Extra** and agitate until product is fully dissolved.
4. Add the required amount of **Disruptor® or Destroyer® glyphosate**.
5. Add required amount of surfactant, then complete filling tank with balance of water and apply.
6. Product must be applied within 24 hours in order to remain effective.

**UNDERSTANDING PERFORMANCE**

- Use 50 mesh or larger screens in spraying equipment.
- Optimum control will occur during warm moist conditions when weeds are actively growing.
- For best results, ensure thorough spray coverage of target weeds, use higher water volumes for heavier weed pressure.
- Weeds hardened off by cold weather or drought stress may not be adequately controlled or suppressed, and regrowth may occur.
- Application to crops that are stressed by severe weather conditions, frost, low fertility, water-logged soil (soil at or near field capacity), disease or insect damage may result in crop injury. Drought, disease or insect damage following application may also result in crop injury.
- Do not use on highly variable soils that have large gravelly or sandy areas, eroded knolls, or calcium deposits, as risk of crop damage will increase.
- Product effectiveness will be reduced if left in the sprayer for more than 24 hours after mixing.

Always read and follow all label precautions and directions.

\*When applying tank mix combinations, always follow all label requirements for each product used in the tank mix. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

†Supported by AgraCity. For a complete list of tank mix options, go to [AgraCity.com/Solutions](http://AgraCity.com/Solutions).

Aurora®, Destroyer®, Disruptor®, HellCat®, MPower®, and Himalaya® are trademarks of AgraCity or its affiliates. All other products are trademarks of their respective holders.

# HIMALAYA® PASS HERBICIDE

## AGRACITY EXCLUSIVE PRODUCT Flucarbazone + Florasulam Herbicide

### WHY USE HIMALAYA PASS?

- AgraCity Exclusive Product - contains 3 active ingredients (when mixed with glyphosate) for extended pre-seed suppression of wild oats and control of broadleaf weeds
- Enhanced control of dandelion, narrow-leaved hawk's-beard, and volunteer canola
- Controls 39 broadleaf and grass weeds when mixed with **Disruptor®** or **Destroyer®** glyphosate
- Extended early season suppression of wild oats
- Option to apply multiple modes of action on wild oats in the same season
- Use in all soil zones
- Great pre-seed option ahead of **Aurora®** or **Hellcat®**
- Great value and affordable price for pre-seed weed control in wheat

## FOR USE ON

- Prior to seeding spring wheat



## WEEDS

### CONTROLLED

#### When mixed with glyphosate:

- |                                   |                                   |
|-----------------------------------|-----------------------------------|
| • Annual blue grass <sup>1</sup>  | • Prickly lettuce <sup>1</sup>    |
| • Annual sow thistle <sup>1</sup> | • Quackgrass <sup>1</sup>         |
| • Canada fleabane                 | • Ragweed                         |
| • Canada thistle <sup>1</sup>     | • Redroot pigweed                 |
| • Chickweed                       | • Russian thistle                 |
| • Cleavers                        | • Scentless chamomile             |
| • Cow cockle                      | • Shepherd's purse                |
| • Crabgrass <sup>1</sup>          | • Smartweed                       |
| • Dandelion <sup>2</sup>          | • Stinkweed                       |
| • Downy brome                     | • Toadflax <sup>1</sup>           |
| • Flixweed                        | • Volunteer barley                |
| • Foxtail barley <sup>1</sup>     | • Volunteer canola (all HT types) |
| • Giant foxtail                   | • Volunteer flax                  |
| • Green foxtail                   | • Volunteer wheat                 |
| • Hemp-nettle                     | • Wild buckwheat                  |
| • Kochia <sup>3</sup>             | • Wild mustard                    |
| • Lady's thumb                    | • Wild oats                       |
| • Lamb's-quarters                 |                                   |
| • Narrow-leaved hawk's-beard      |                                   |
| • Persian darnel                  |                                   |

### SUPPRESSED

- Annual sow thistle
- Perennial sow thistle

<sup>1</sup> With the addition of glyphosate; refer to label to rates

<sup>2</sup> Top growth control, up to 15cm

<sup>3</sup> Not including biotypes resistant to Groups 2 and 9



# HIMALAYA PASS HERBICIDE

AGRICITY EXCLUSIVE PRODUCT

## REQUIRED SURFACTANT

- None required when mixed with glyphosate
- If used alone Agral® 90 at 2 L per 1,000 L water

## ACTIVE INGREDIENTS

- Flucarbazone 66% water dispersible granule (WDG)
- Florasulam 50 g/L suspension concentrate (SC)

## PACKAGE SIZE

- 160 acres

## WHEN TO APPLY

- Up to 1 day prior to seeding

## WATER VOLUME

- 5-10 US gallons/acre (20-40 L/acre)

## RAINFAST PERIOD

- 1 hour

## RE-CROPPING OPTIONS

GREY WOODED	BLACK	DARK BROWN	BROWN
Spring wheat	Spring wheat	Spring wheat	Spring wheat
Barley	Barley	Barley	
Canola	Canola	Canola	
Field peas*	Field peas*	Field peas*	
	Field beans	Flax	
	Flax	Durum wheat	
	Durum wheat		

\* Field peas can be successfully grown the year after application of Himalaya provided the following three criteria are met:

1. Soil pH is below 7.5
2. Organic matter content is above 4%
3. Precipitation is equal to or above the 10 year average (minimum 100 mm) within 60 days of application in year of application, or fields can be summerfallowed.

## TANK MIX OPTIONS\*

- Disruptor® or Destroyer glyphosate†

## STORAGE

- Product can be frozen

## GRAZING AND HARVEST

- Do not graze treated fields or use green crop for feed. Wheat grain or straw from harvested treated fields may be fed to livestock.
- Mature crop may be harvested 80 days after application.

## MIXING INSTRUCTIONS

1. Fill the spray tank 1/2 full of clean water, begin agitation and continue throughout mixing and application process.
2. Add the required amount of **Himalaya** and continue agitation until product is fully dissolved.
3. Add the required rate of **Battlefront®** and mix thoroughly.
4. Add the required amount of **Disruptor®** or **Destroyer®** glyphosate.
5. Add required amount of surfactant, then complete filling tank with balance of water and apply.
6. If application is interrupted prior to completion, re-agitate, bring back into suspension before completion.

## UNDERSTANDING PERFORMANCE

- Use 50 mesh or larger screens in spraying equipment.
- Optimum control will occur during warm moist conditions when weeds are actively growing.
- For best results, ensure thorough spray coverage of target weeds; use higher water volumes for heavier weed pressure.
- Weeds hardened off by cold weather or drought stress may not be adequately controlled or suppressed and regrowth may occur.
- Application to crops that are stressed by severe weather conditions, frost, low fertility, water-logged soil (soil at or near field capacity), disease or insect damage may result in crop injury. Drought, disease or insect damage following application may also result in crop injury.
- Do not use on highly variable soils that have large gravelly or sandy areas, eroded knolls, or calcium deposits, as risk of crop damage will increase.
- Do not apply products containing florasulam or flucarbazone in-crop when **Himalaya Pass** is applied pre-seed.

Always read and follow all label precautions and directions.

\*When applying tank mix combinations, always follow all label requirements for each product used in the tank mix. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

†Supported by AgraCity. For a complete list of tank mix options, go to [AgraCity.com/Solutions](http://AgraCity.com/Solutions).

Aurora®, Battlefront®, Destroyer®, Disruptor®, HellCat®, and Himalaya® are trademarks of AgraCity or its affiliates. All other products are trademarks of their respective holders.



# MPOWER<sup>®</sup> EXTRA HERBICIDE

GROUP  
2

**SAME ACTIVE AS EXPRESS<sup>®</sup>**  
**Tribenuron Herbicide**

## WHY USE MPOWER EXTRA?

- Same active as Express
- Enhanced control of dandelion, narrow-leaved hawk's-beard, flixweed, and stinkweed
- Controls or suppresses 25 broadleaf and grass weeds when mixed with glyphosate (all types)
- Use in all soil zones
- Multiple modes of action
- Tank mix with any glyphosate
- Great pre-seed option ahead of **Aurora<sup>®</sup>** or **HellCat<sup>®</sup>**
- Great value and affordable price for pre-seed weed control

## FOR USE ON

- Spring wheat, durum wheat, barley

## WEEDS

### CONTROLLED

When mixed with glyphosate acid equivalent at 0.5 L/acre (360 gm a.i./L):

#### Weeds up to 8 cm

- Canada fleabane
- Common ragweed
- Narrow-leaved hawk's-beard

#### Weeds up to 3 leaf

- Cow cockle
- Wild buckwheat

#### Rosette

- Canada thistle<sup>3</sup>

#### Weeds up to 8 cm

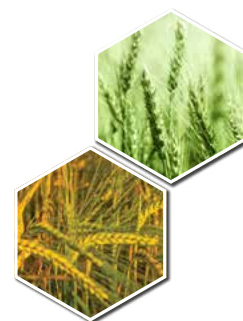
- Dandelion
- Downy brome
- Flixweed
- Giant foxtail
- Green foxtail
- Hemp-nettle
- Kochia<sup>1</sup>
- Lady's thumb
- Lamb's-quarters
- Persian dandelion

- Redroot pigweed
- Russian thistle
- Stinkweed
- Volunteer barley
- Volunteer canola<sup>2</sup>
- Volunteer flax
- Volunteer wheat
- Wild mustard
- Wild oats

<sup>1</sup> Not including Group 2 and 9 resistant biotypes

<sup>2</sup> Including all HT varieties

<sup>3</sup> Suppression



**MPOWER EXTRA** HERBICIDE

SAME ACTIVE AS EXPRESS

**REQUIRED SURFACTANT**

- None required when mixed with glyphosate

**ACTIVE INGREDIENT**

- Tribenuron-Methyl 75% dry flowable (DF)

**PACKAGE SIZE**

- **Case:** 80 acres

**WHEN TO APPLY**

- Up to 1 day prior to seeding

**WATER VOLUME**

- 5-10 US gallons/acre (20-40 L/acre)

**RAINFAST PERIOD**

- 1 hour

**RE-CROPPING OPTIONS**

- **1 day after application:** Spring wheat, durum wheat, or barley
- **2 months after application:** Canola, flax, lentils, or alfalfa.
- No restrictions the following crop year

**TANK MIX OPTIONS\***

- **Disruptor® or Destroyer® glyphosate†,**

**STORAGE**

- Product can be frozen

**GRAZING AND HARVEST**

- No grazing restrictions
- No pre-harvest interval for registered crops

**MIXING INSTRUCTIONS**

1. Fill the spray tank 1/2 full of clean water, begin agitation and continue throughout mixing and application process.
2. Add the required rate of **MPower Extra** and agitate until product is fully dissolved.
3. Add the required amount of **Disruptor or Destroyer glyphosate**.
4. Add required amount of surfactant, then complete filling tank with balance of water and apply.
5. Product must be applied within 24 hours in order to remain effective.

**UNDERSTANDING PERFORMANCE**

- Use 50 mesh or larger screens in spraying equipment.
- Optimum control will occur during warm moist conditions when weeds are actively growing.
- For best results, ensure thorough spray coverage of target weeds, use higher water volumes for heavier weed pressure.
- Weeds hardened off by cold weather or drought stress may not be adequately controlled or suppressed and regrowth may occur.
- Application to crops that are stressed by severe weather conditions, frost, low fertility, water-logged soil (soil at or near field capacity), disease or insect damage may result in crop injury. Drought, disease or insect damage following application may also result in crop injury.
- Do not use on highly variable soils that have large gravelly or sandy areas, eroded knolls, calcium deposits, or soils with less than 3% organic matter, as risk of crop damage will increase
- Product effectiveness will be reduced if left in the sprayer for more than 24 hours after mixing.

Always read and follow all label precautions and directions.

\*When applying tank mix combinations, always follow all label requirements for each product used in the tank mix. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

†Supported by AgraCity. For a complete list of tank mix options, go to [AgraCity.com/Solutions](https://AgraCity.com/Solutions).

Aurora®, Destroyer®, Disruptor®, Hellcat® and MPower® are trademarks of AgraCity or its affiliates. All other products are trademarks of their respective holders.

# PILOT® HERBICIDE

**SAME ACTIVES AS KORREX™**  
**Dicamba + Florasulam Herbicide**

## WHY USE PILOT?

- Same actives as Korrex
- Dependable reduced tillage control of dandelion (top growth), narrow-leaved hawk's-beard, volunteer canola (all types) and wild buckwheat when mixed with Disruptor® glyphosate.
- Control or suppression of 36 grass and broadleaf weeds
- Trusted control of kochia
- Use in the brown and dark brown zones
- Low rate, easy to use
- High performance, broad spectrum reduced tillage control at an affordable price

## FOR USE ON

- Reduced tillage fallow. Spring wheat, durum wheat, winter wheat, barley, oats may be seeded after application



## WEEDS

### CONTROLLED\*

**When mixed with glyphosate:**

- |                                   |                                   |
|-----------------------------------|-----------------------------------|
| • Annual blue grass <sup>1</sup>  | • Prickly lettuce <sup>1</sup>    |
| • Annual sow thistle <sup>1</sup> | • Quackgrass <sup>1</sup>         |
| • Canada fleabane                 | • Ragweed                         |
| • Chickweed                       | • Redroot pigweed                 |
| • Cleavers                        | • Russian thistle                 |
| • Cow cockle                      | • Scentless chamomile             |
| • Crabgrass <sup>1</sup>          | • Shepherd's purse                |
| • Dandelion <sup>2</sup>          | • Smartweed                       |
| • Downy brome                     | • Stinkweed                       |
| • Flixweed                        | • Toadflax <sup>1</sup>           |
| • Foxtail barley <sup>1</sup>     | • Volunteer barley                |
| • Giant foxtail                   | • Volunteer Canola (all HT types) |
| • Green foxtail                   | • Volunteer flax                  |
| • Hemp-nettle                     | • Volunteer wheat                 |
| • Kochia*                         | • Wild buckwheat                  |
| • Lady's thumb                    | • Wild mustard                    |
| • Lamb's-quarters                 | • Wild oats                       |
| • Narrow-leaved hawk's-beard      |                                   |
| • Persian darnel                  |                                   |

### SUPPRESSED

- Annual sow thistle
- Perennial sow thistle

\* Requires the addition of 372 ml/acre 2,4-D Ester 600

<sup>1</sup> With the addition of glyphosate; refer to label to rates

<sup>2</sup> Seedling, over-wintered rosettes, mature plants up to 15 cm in diameter

<sup>3</sup> Not including Group 2 and 9 resistant biotypes





**PILOT** HERBICIDE

SAME ACTIVES AS KORREX

**REQUIRED SURFACTANT**

- None required

**ACTIVE INGREDIENTS**

- Dicamba 480 g/L solution (SN)
- Florasulam 50 g/L suspension concentrate (SC)

**PACKAGE SIZE**

- **Case:** 160 acres

**WHEN TO APPLY**

- When seedling weeds have emerged and are actively growing

**WATER VOLUME**

- 10 US gallons/acre (40 L/acre)

**RAINFAST PERIOD**

- 2 hours

**RE-CROPPING OPTIONS**

- Grow all major crops the year after application

**TANK MIX OPTIONS\***

- **Disruptor®** or **Destroyer®†** or other 360 glyphosates (IPA & DMA salts only†)

**STORAGE**

- Store in dry, heated area. If product is frozen, allow to warm at room temperature and agitate before use.

**GRAZING AND HARVEST**

- Livestock may be grazed on treated crops 7 days following application.
- Withdraw meat animals from treated areas at least 3 days before slaughter.
- Allow 30 days after application before cutting hay or harvesting silage.
- Mature crop can be harvested 60 days after application.

†Using K+ salt glyphosates found in 540 glyphosates may result in a paint-like solution in the spray tank.

**MIXING INSTRUCTIONS**

1. Fill the spray tank 1/2 full of water, begin agitation and continue throughout mixing and application process.
2. Add the required amount of **Battlefront®** and mix thoroughly.
3. Add the required amount of **Ammo®**.
4. Add the required amount of **Disruptor®** glyphosate.
5. Add any other required tank mix partners or surfactants, fill tank with remaining water, and apply
6. If application is stopped prior to completion, re-suspend spray solution by full agitation prior to commencing spraying again.

**UNDERSTANDING PERFORMANCE**

- Optimal control occurs in warm moist conditions which promotes weed growth and herbicide activity.
- Typical symptoms (discoloration) of dying weeds may not be noticeable for 1 to 2 weeks after application, depending upon growing conditions and weed susceptibility. Control of weeds may take 3-4 weeks.
- Extreme growing conditions such as drought or near freezing temperatures prior to, at or following time of application may reduce weed control or increase weed re-growth.
- Weeds that have emerged at the time of application will be affected. If foliage is wet at the time of application, control may be decreased. Under conditions of high weed density, control may be reduced.
- Weed escapes may occur under prolonged stress conditions or low fertility. Do not make applications to weeds stressed longer than 20 days due to lack of moisture as unsatisfactory control can result.
- Injury on crops planted after application may occur when growing conditions are poor (marginal soil fertility, saline soils, waterlogged soils, drought, seedling disease) or on variable soils (eroded knolls, sidehills).
- Do not use dicamba or florasulam in successive years or apply consecutively on the same field.

Always read and follow all label precautions and directions.

\*When applying tank mix combinations, always follow all label requirements for each product used in the tank mix. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

†Supported by AgraCity. For a complete list of tank mix options, go to [AgraCity.com/Solutions](http://AgraCity.com/Solutions).

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# REVENGE® HERBICIDE

**SAME ACTIVE AS AIM®**  
**Carfentrazone Herbicide**

## WHY USE REVENGE?

- Same active as Aim
- Proven pre-seed control of kochia, redroot pigweed, stinkweed, and volunteer canola.
- Alternative Group 14 mode of action for resistance management
- Controls Group 2 resistant kochia and 19 other broadleaf weeds
- Fast activity on weeds such as kochia and volunteer canola
- Use in all soil zones
- Multiple tank mix options for broad spectrum weed control
- No re-cropping restrictions
- Outstanding control of broadleaf weeds prior to pulse crops, canola and cereals at an affordable price

## FOR USE ON

- **Prior to crop emergence:** canola, chickpea, dry bean, lentils, field peas, soybeans, barley, spring wheat, durum wheat, winter wheat, oats, potato, buckwheat, corn (including field, pop and sweet), pearl millet, proso millet, rye, triticale, mustard, flax, safflower, sunflower
- See product label for a complete list of additional registered crops

## WEEDS CONTROLLED

30 ml/acre rate:

See product label for the maximum size of each weed controlled

- |                            |  |
|----------------------------|--|
| • Carpetweed               | • Pennsylvania smartweed (seedling)            |
| • Cleavers <sup>3</sup>    | • Pigweed (prostrate, redroot, smooth, tumble) |
| • Cocklebur                | • Russian thistle <sup>3</sup>                 |
| • Common purslane          | • Shepherd's purse <sup>4</sup>                |
| • Eastern black nightshade | • Stinkweed                                    |
| • Flixweed <sup>3</sup>    | • Tansy mustard                                |
| • Jimsonweed               | • Tall waterhemp                               |
| • Kochia <sup>1</sup>      | • Velvetleaf                                   |
| • Lamb's-quarters          | • Volunteer canola <sup>2</sup>                |
| • Morning glory            |  |
| • Hairy nightshade         |  |
| • Round-leaved mallow      |  |

<sup>1</sup> Including Group 2, 4 and 9 resistant biotypes

<sup>2</sup> Including all HT types

<sup>3</sup> Controlled with the addition of glyphosate at 180-275 g a.i. per ac

<sup>4</sup> Controlled with the addition of glyphosate at 325 g a.i. per ac



**REVENGE** HERBICIDE

SAME ACTIVES AS AIM

**REQUIRED SURFACTANT**

- None required when mixed with glyphosate

**ACTIVE INGREDIENT**

- Carfentrazone 240 g/L emulsifiable concentrate (EC)

**PACKAGE SIZE**

- **Case:** 2 x 4.8 L treats 320 acres

**WHEN TO APPLY**

- **Crop stage:** Prior to seeding
- **Weed stage:** Up to 10 cm in height

**WATER VOLUME**

- 10 US gallons/acre (40 L/acre)

**RAINFAST PERIOD**

- 1 hour

**RE-CROPPING OPTIONS**

- Grow all major crops the year after application

**TANK MIX OPTIONS\***

- **Disruptor® or Destroyer® glyphosate†, Buck®, 2,4-D Ester (wheat, barley only)**

**STORAGE**

- Store in a cool dry place away from heat

**GRAZING AND HARVEST**

- No grazing restrictions
- Harvest mature crops 3 days after application, except potatoes, which require 7 days after application

**MIXING INSTRUCTIONS**

1. Fill the sprayer 1/2 full of clean water, begin agitation and continue throughout mixing and application process.
2. If required add the correct amount of any dry or solution concentrate products.
3. Add the required amount of **Revenge**.
4. Add the required amount of **Disruptor** or **Destroyer** glyphosate.
5. Add any other liquid formulation tank mix products
6. Add surfactant if required, then complete filling tank and apply.
7. If application is stopped prior to completion, re-suspend spray solution by full agitation prior to commencing spraying again.

**UNDERSTANDING PERFORMANCE**

- Optimal control occurs when applied between 12° and 24° C in good growing conditions when weeds are small and actively growing. Under warm moist conditions herbicide symptoms may be accelerated.
- Good coverage of weeds is essential; due to rapid absorption by leaves, translocation is very limited.
- Weeds that are not emerged will not be controlled.
- **Revenge** is primarily absorbed by the leaves of plants. Typical symptoms (rapid browning, necrosis) occurs rapidly within hours after application with control taking several days to one week.
- Extreme weather conditions such as temperature, moisture, soil conditions and cultural practices may affect activity. Under drought conditions control may be reduced as weeds hardened off by drought are less susceptible.
- Do not apply **Revenge** more than once per growing season.

Always read and follow all label precautions and directions.

†Supported by AgraCity. For a complete list of tank mix options, go to [AgraCity.com/Resources](https://AgraCity.com/Resources)

\*When applying tank mix combinations, always follow all label requirements for each product used in the tank mix. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

Revenge®, Destroyer®, Disruptor®, and Buck® are trademarks of AgraCity or its affiliates. All other products are trademarks of their respective holders.

# REVENGE® A HERBICIDE

## AGRACITY EXCLUSIVE PRODUCT Carfentrazone + Dicamba Herbicide

### WHY USE REVENGE A?

- AgraCity Exclusive Product – contains 2 modes of action with a higher rate of dicamba for control of Group 2 resistant kochia
- Controls tough weeds like kochia, Russian thistle and volunteer canola with quick control
- Controls or suppresses over 40 grass & broadleaf weeds when mixed with glyphosate
- Three modes of action when mixed with glyphosate for herbicide resistance management
- Systemic and contact activity for dependable control
- No re-cropping restrictions the year after application
- Affordable reduced tillage control of broadleaf weeds
- Powerful control of the toughest broadleaf weeds

## FOR USE ON

- **Prior to seeding:** reduced tillage fallow; spring wheat, durum wheat, winter wheat, barley and oats



## WEEDS CONTROLLED\*

### Weeds up to 15 cm

When mixed with glyphosate acid equivalent at 0.5L/ac (360 gm a.i./L)

- |                               |   |                                 |
|-------------------------------|---|---------------------------------|
| • Canada fleabane             | • Hemp nettle                           | • Tall water hemp               |
| • Canada thistle <sup>2</sup> | • Kochia <sup>1,3,4</sup>               | • Tartary buckwheat             |
| • Cleavers                    | • Lady's thumb/green smartweed          | • Velvet leaf                   |
| • Common ragweed              | • Lamb's quarters                       | • Volunteer barley              |
| • Corn spurry                 | • Morning glory                         | • Volunteer canola <sup>1</sup> |
| • Cow cockle                  | • Narrow eaved hawks beard <sup>5</sup> | • Volunteer flax                |
| • Downey brome                | • Persian darnel                        | • Volunteer wheat               |
| • Easter black night shade    | • Redroot pigweed                       | • Wild buckwheat                |
| • Flixweed                    | • Russian Thistle                       | • Wild mustard                  |
| • Giant foxtail               | • Sow thistle <sup>2</sup>              | • Wild oats                     |
| • Green foxtail               | • Stinkweed                             |                                 |

\*Requires the Addition of 372 ml/ac of 2,4-D Ester 600

<sup>1</sup> Not including glyphosate-resistant bio-types

<sup>2</sup>Top growth control only

<sup>3</sup> Including Group 2 resistant biotypes

<sup>4</sup> Suppression only

<sup>5</sup> Up to 8 cm





**REVENGE A** HERBICIDE

AGRICITY EXCLUSIVE PRODUCT

**REQUIRED SURFACTANT**

- None required when mixed with glyphosate

**ACTIVE INGREDIENTS**

- Carfentrazone 240 g/L emulsifiable concentrate
- Dicamba 480 g/L solution (SN)

**PACKAGES SIZES**

- **Case:** Treats 160 acres

**WHEN TO APPLY**

- When seedling weeds have emerged and are actively growing, and prior to seeding

**WATER VOLUME**

- Minimum 10 US gallons per acre (40 L/ac)

**RAINFEST PERIOD**

- 1 hour

**RE-CROPPING OPTIONS**

- No restrictions the following year

**TANK MIX OPTIONS\***

- **Disruptor® or Destroyer® glyphosate†**

**STORAGE**

- Store in cool dry place away from heat

**GRAZING AND HARVEST**

- Harvest forage or cut hay 30 days after application
- Lactating dairy animals may graze fields 7 days after application
- Withdraw meat animals from treated fields at least 3 days before slaughter.

**MIXING INSTRUCTIONS**

1. Fill the spray tank 1/2 full of water, start sprayer agitation and continue throughout mixing and application process.
2. Add any dry formulation tank mix partners.
3. Add the required amount of **Ammo®**
4. Add the required amount of **Revenge**
5. Add the required amount of **Destroyer or Disruptor glyphosate**
6. Add any required surfactants, complete filling of sprayer and apply.
7. If application is stopped prior to completion, re-suspend spray solution by full agitation prior to commencing spraying again. Product effectiveness will be reduced if left in the sprayer for more than 24 hours after mixing.

**UNDERSTANDING PERFORMANCE**

- Best results will occur with temperatures between 12° C and 24° C in warm moist conditions when weeds are smaller and actively growing.
- Use higher water volumes with heavier weed pressure, larger weeds and thicker crop canopy.
- Typical symptoms (twisting of the stems) of dying weeds may not be visible for several days to 2 weeks after application, depending on growing conditions. Control of weeds may take 3-4 weeks.
- When weeds are stressed due to drought, flooding or prolonged hot or cool temperatures (less than 8 °C or more than 27°C), control can be reduced or delayed since weeds are not actively growing.
- Weed escapes may occur under prolonged stress conditions or low fertility. Do not make applications to weeds stressed longer than 20 days due to lack of moisture as unsatisfactory control may result.
- Do not use on highly variable soils that have large gravelly or sandy areas, eroded knolls, calcium deposits, or organic matter less than 3%, as risk of future crop damage will increase.

Always read and follow all label precautions and directions.

\*When applying tank mix combinations, always follow all label requirements for each product used in the tank mix. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

†Supported by AgraCity.

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# REVENGE® AE HERBICIDE

## AGRACITY EXCLUSIVE PRODUCT

### Carfentrazone + Tribenuron + Dicamba Herbicide

#### WHY USE REVENGE AE?

- AgraCity Exclusive Product - contains three modes of action with a higher rate of dicamba for control of Group 2 resistant kochia
- Control of tough weeds like kochia, Russian thistle, and volunteer canola
- Enhanced control of dandelion, narrow-leaved hawk's-beard, and flixweed
- Four modes of action when applied with glyphosate for resistance management
- Controls 37 grass and broadleaf weeds when mixed with glyphosate
- Fast activity on weeds such as kochia and volunteer canola
- Use in all soil zones
- No re-cropping restrictions the year after application
- Affordable reduced tillage control of broadleaf weeds

## FOR USE ON

- **Prior to seeding:** reduced tillage fallow; spring wheat, durum wheat, and barley



## WEEDS CONTROLLED\*

When mixed with glyphosate acid equivalent at 0.5L/ac (360 gm a.i./L)

#### Weeds up to 8 cm

- Canada fleabane
- Common ragweed
- Narrow-leaved hawk's-beard

#### Weeds up to 10cm

- Carpetweed
- Cocklebur
- Eastern black nightshade
- Hairy nightshade
- Jimsonweed
- Morning glory
- Pennsylvania smartweed (seedling)
- Pigweed (prostrate, tumble)
- Purslane
- Round-leaved mallow
- Tall waterhemp
- Velvetleaf

#### Weeds up to 3 leaf

- Cow cockle
- Wild buckwheat

#### Rosette

- Canada thistle<sup>3</sup>

#### Weeds up to 15 cm

- Dandelion
- Downy brome
- Flixweed
- Giant foxtail
- Green foxtail
- Hemp-nettle
- Kochia<sup>1</sup>
- Lady's thumb
- Lamb's-quarters
- Persian dandelion
- Redroot pigweed
- Russian thistle
- Stinkweed
- Volunteer barley
- Volunteer canola<sup>2</sup>
- Volunteer flax
- Volunteer wheat
- Wild mustard
- Wild oats

\* Requires the addition of 372 ml/acre 2,4-D Ester 600

<sup>1</sup> Including Group 2, 4, 9 resistant biotypes

<sup>2</sup> Including all HT varieties

<sup>3</sup> Suppression



**REVENGE AE** HERBICIDE

AGRICITY EXCLUSIVE PRODUCT

**REQUIRED SURFACTANT**

- None required when mixed with glyphosate

**ACTIVE INGREDIENT**

- Carfentrazone 240 g/L emulsifiable concentrate (EC)
- Tribenuron-methyl 75% dry flowable (DF)
- Dicamba 480 g/L solution (SN)

**PACKAGE SIZE**

- **Case:** Treats 160 ac

**WHEN TO APPLY**

- When seedling weeds have emerged and are actively growing

**WATER VOLUME**

- Minimum 10 US gallons/acre (40 L/acre)

**RAINFAST PERIOD**

- 1 hour

**RE-CROPPING OPTIONS**

- No restrictions the following crop year

**TANK MIX OPTIONS\***

- **Disruptor® or Destroyer® glyphosate†**

**STORAGE**

- Store in a cool dry place away from heat

**GRAZING AND HARVEST**

- Harvest forage or cut hay 30 days after application
- Lactating dairy animals may graze fields 7 days after application
- Withdraw meat animals from treated fields at least 3 days before slaughter

**MIXING INSTRUCTIONS**

1. Fill the sprayer 1/2 full of clean water, begin agitation and continue throughout mixing and application process.
2. Add the required amount of **MPower® Extra** and fully dissolve.
3. Add the required amount of **Ammo®**
4. Add the required amount of **Revenge**.
5. Add the required amount of **Destroyer** or **Disruptor glyphosate**.
6. Add any additional required products or surfactants, then complete filling tank and apply.
7. If application is stopped prior to completion, re-suspend spray solution by full agitation prior to commencing spraying again. Product effectiveness will be reduced if left in the sprayer for more than 24 hours after mixing.

**UNDERSTANDING PERFORMANCE**

- Use 50 mesh or larger screens in spraying equipment.
- Optimal control occurs when applied between 12°C and 24° C in good growing conditions when weeds are small and actively growing. Under warm moist conditions herbicide symptoms may be accelerated.
- For best results, ensure thorough spray coverage of target weeds. Use higher water volumes for heavier weed pressure.
- Weeds that are not emerged will not be controlled.
- Rapid symptoms (rapid browning, necrosis) occur within hours after application. Other symptoms (yellowing, curled leaves, twisted stems, cupped leaves) of dying weeds may not be noticeable for 10-14 days after application depending upon growing conditions. Control may take 3-4 weeks.
- Extreme weather conditions such as temperature, moisture, soil conditions and cultural practices may affect activity. Under drought conditions control may be reduced as weeds hardened off by drought are less susceptible.
- Do not apply this product or products containing these active ingredients more than once per growing season.
- Do not use on highly variable soils that have large gravelly or sandy areas, eroded knolls, calcium deposits, or organic matter less than 3% as risk of future crop damage will increase.

Always read and follow all label precautions and directions.

\*When applying tank mix combinations, always follow all label requirements for each product used in the tank mix. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

†Supported by AgraCity. For a complete list of tank mix options, go to [AgraCity.com/Solutions](http://AgraCity.com/Solutions).

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# REVENGE® E HERBICIDE

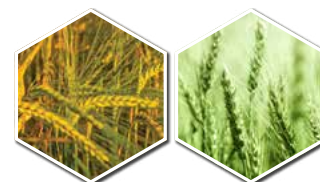
## AGRACITY EXCLUSIVE PRODUCT Carfentrazone + Tribenuron Herbicide

### WHY USE REVENGE E?

- AgraCity Exclusive Product - contains 3 active ingredients (when mixed with glyphosate) for top-notch pre-seed control of dandelion, flixweed, kochia and narrow-leaved hawk's-beard
- Enhanced pre-seed control of dandelion, narrow-leaved hawk's-beard, and flixweed
- Group 14 and 2 modes of action for resistance management
- Use in all soil zones
- Controls Group 2, 4, 9 resistant kochia, glyphosate resistant volunteer canola, and 38 other broadleaf weeds when mixed with glyphosate
- Fast activity on weeds such as kochia and volunteer canola
- No re-cropping restrictions the year after application
- Outstanding pre-seed control of broadleaf weeds in cereal crops at an affordable price

## FOR USE ON

- **Prior to seeding:** spring wheat, durum wheat and barley



## WEEDS CONTROLLED

When mixed with glyphosate acid equivalent at 0.5–1.0 L/acre (360 gm a.i./L formulation)

### Weeds up to 8 cm

- Canada fleabane
- Common ragweed
- Narrow-leaved hawk's-beard

### Weeds up to 10cm

- Carpetweed
- Cocklebur
- Eastern black nightshade
- Hairy nightshade
- Jimsonweed
- Morning glory
- Pennsylvania smartweed (seedling)
- Pigweed (prostrate, tumble, smooth)
- Purslane
- Round-leaved mallow
- Tall waterhemp
- Tansy mustard
- Velvetleaf

### Weeds up to 3 leaf

- Cow cockle
- Wild buckwheat

### Rosette

- Canada thistle<sup>3</sup>

### Weeds up to 15 cm

- Cleavers
- Dandelion
- Downy brome
- Flixweed
- Giant foxtail
- Green foxtail
- Hemp-nettle
- Kochia<sup>1</sup>
- Lady's thumb
- Lamb's-quarters
- Persian darnel
- Redroot pigweed
- Russian thistle
- Stinkweed
- Volunteer barley
- Volunteer canola<sup>2</sup>
- Volunteer flax
- Volunteer wheat
- Wild mustard
- Wild oats

<sup>1</sup> Including Group 2, 4 & 9 resistant biotypes

<sup>2</sup> Including all HT varieties

<sup>3</sup> Suppression





# REVENGE E HERBICIDE

AGRICITY EXCLUSIVE PRODUCT

## REQUIRED SURFACTANT

- None required when mixed with glyphosate
- If used alone AgSurf® II or Agral® 90 at 2L per 1,000L water

## ACTIVE INGREDIENT

- Carfentrazone 240 g/L emulsifiable concentrate (EC)
- Tribenuron-methyl 75% dry flowable (DF)

## PACKAGE SIZE

- **Case:** Treats 160 ac

## WHEN TO APPLY

- **Crop stage:** Up to one day prior to seeding
- **Weed stage:** See "Weeds Controlled" section

## WATER VOLUME

- 10 US gallons/acre (40 L/acre)

## RAINFAST PERIOD

- 1 hour

## RE-CROPPING OPTIONS

- 1 day after application: spring wheat, durum wheat, barley
- 2 months after application: canola, flax, lentils, alfalfa
- No restrictions the following crop year

## TANK MIX OPTIONS\*

- **Disruptor® or Destroyer® glyphosate†**

## STORAGE

- Store in a cool dry place away from heat

## GRAZING AND HARVEST

- No grazing restrictions
- No pre-harvest interval for registered crops

## MIXING INSTRUCTIONS

1. Fill the sprayer 1/2 full with clean water, begin agitation and continue throughout mixing and application process.
2. Add the required amount of **MPower® Extra** and fully dissolve.
3. Add the required amount of **Revenge**.
4. Add the required amount of **Disruptor** or **Destroyer** glyphosate.
5. Add surfactant if required, then complete filling tank and apply.
6. If application is stopped prior to completion, re-suspend spray solution by full agitation prior to commencing spraying again. Product effectiveness will be reduced if left in the sprayer for more than 24 hours after mixing.

## UNDERSTANDING PERFORMANCE

- Use 50 mesh or larger screens in spraying equipment.
- Optimal control occurs when applied between 12°C and 24°C in good growing conditions when weeds are small and actively growing. Under warm moist conditions herbicide symptoms may be accelerated.
- For best results, ensure thorough spray coverage of target weeds. Use higher water volumes for heavier weed pressure.
- Weeds that are not emerged will not be controlled.
- Rapid symptoms (rapid browning, necrosis) occur within hours after application. Other symptoms (yellowing, curled leaves, twisted stems, cupped leaves) of dying weeds may not be noticeable for 10-14 days after application depending upon growing conditions. Control may take 3-4 weeks depending on conditions.
- Extreme weather conditions such as temperature, moisture, soil conditions and cultural practices may affect activity. Under drought conditions control may be reduced as weeds hardened off by drought are less susceptible.
- Do not apply this product, or products containing these active ingredients more than once per growing season.
- Do not use on highly variable soils that have large gravelly or sandy areas, eroded knolls, calcium deposits, or organic matter less than 3% as risk of crop damage will increase.

Always read and follow all label precautions and directions.

\*When applying tank mix combinations, always follow all label requirements for each product used in the tank mix. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

†Supported by AgraCity.

Destroyer®, Disruptor®, MPower®, and Revenge® are trademarks of AgraCity or its affiliates. All other products are trademarks of their respective holders.

# ACE® II HERBICIDE

**SAME ACTIVE AS AXIAL®**  
**Pinoxaden Herbicide**

GROUP  
**1**

## WHY USE ACE?

- Same active as Axial®
- Exceptional Control of wild oats and other grassy weeds
- Use in all soil zones
- Systemic mode of action for dependable control
- Wide window of application
- Excellent crop safety
- No re-cropping restrictions
- Dependable control of grass weeds in spring wheat and barley at the best price

## FOR USE ON

- Spring wheat and barley



## WEEDS CONTROLLED

- |                         |                       |
|-------------------------|-----------------------|
| • Wild oats             | • Volunteer tame oats |
| • Barnyard grass        | • Yellow foxtail      |
| • Green foxtail         | • Proso millet        |
| • Volunteer canary seed |                       |



**ACE II** HERBICIDE

SAME ACTIVE AS AXIAL

**SURFACTANT**

- Deuce® adjuvant at 283 ml/ac

**ACTIVE INGREDIENT**

- Pinoxaden 100 g/L emulsifiable concentrate (EC)

**PACKAGE SIZES**

- **Case:** 40 acres
- **Bulk:** 480 acres

**WHEN TO APPLY**

- **Crop stage:**  
1-flag leaf
- **Weed stage:**  
1-6 leaf prior to 4th tiller

**WATER VOLUME**

- **Ground:** 5-10 US gallons/acre (20-40 L/acre)
- **Aerial:** 3 US gallons/acre (12 L/acre)

**RAINFAST PERIOD**

- 1 hour

**RE-CROPPING OPTIONS**

- Grow all major crops the year after application.

**TANK MIX OPTIONS**

- **Buck® M<sup>2</sup>, Battlefront®, Battlestar®<sup>†</sup>, Canuck®, Clobber® M<sup>†</sup>, Deathstar®, Foxy® M<sup>†</sup>, Foxy® CM<sup>†</sup>, Foxy® MR, MCPA Ester<sup>2</sup> or Amine<sup>2†</sup>, Pixxaro™ Spectrum™<sup>1,2</sup>, Trophy<sup>2</sup>, Infinity®<sup>3</sup>, Refine® SG, Modo<sup>†</sup>**

**STORAGE**

- Product may be frozen

**GRAZING AND HARVEST**

- Do not graze or feed to livestock within 7 days of application
- Mature crop can be harvested 60 days after application

**MIXING INSTRUCTIONS**

1. Fill sprayer 1/2 full of water, begin agitation and continue throughout mixing and application process.
2. If using a dry broadleaf herbicide, insecticide or fungicide add the required rate and dissolve.
3. Add the required amount of liquid formulation broadleaf herbicide, insecticide, or fungicide.
4. Add the required amount of **Ace II** and agitate for 2-3 minutes.
5. Add the correct amount of **Deuce** surfactant and agitate for 1-2 minutes before adding the remainder of water.
6. If application is stopped prior to completion, resuspend spray solution prior to commencing spraying.
7. If an oil film starts to build up in the tank, drain tank and then clean with a detergent.

**UNDERSTANDING PERFORMANCE**

- Optimum control occurs at temperatures between 12°C and 24°C in warm moist growing conditions.
- Use higher water volumes with a dense crop canopy and/or large weeds.
- Typical symptoms (discoloration) may not be noticeable for 1-2 weeks depending on growing conditions and weed susceptibility. Control of weeds may take 3-5 weeks.
- For best results apply to actively growing weeds. Weed control can be reduced or delayed under stress conditions such as drought, heat, insufficient fertility, flooding, insect or disease damage, or prolonged cool temperatures.
- Application under stress conditions is not recommended as it may cause crop damage and weed re-growth.

Always read and follow all label precautions and directions prior to use.

When applying tank mix combinations always follow all label requirements for each product used in the tank mix. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

Ace®, \*Buck®, Battlefront®, Battlestar®, Canuck®, Clobber®, Deathstar™, Foxy® are trademarks of Agra City or its affiliates. All other products are trademarks of their respective holders.

Always consult the label of the broadleaf herbicide prior to use.

<sup>†</sup>Suppression only of green foxtail.

<sup>2</sup>A reduction in barnyard grass control may be observed when Ace Herbicide is tank mixed with these broadleaf herbicides.

<sup>3</sup>For control of common ragweed and suppression of round-leaved mallow.

<sup>†</sup>Supported by AgraCity. For a complete list of tank mix options go to [AgraCity.com/solutions](http://AgraCity.com/solutions)

# ANACONDA<sup>®</sup> HERBICIDE

## AGRACITY EXCLUSIVE PRODUCT Imazamox + Bentazon + Quizalofop Herbicide

### WHY USE ANACONDA?

- AgraCity Exclusive Product - high performance grass and broadleaf weed control plus an additional mode of action for improved control of grass weeds including wild oats and green foxtail
- Proven control of volunteer canola, wild mustard and grass weeds
- Powerful control of hard to kill grasses
- Controls or suppresses 25 broadleaf and grass weeds
- Use in all soil zones
- 3 modes of action for superior control and resistance management
- Early weed control timing for higher yields
- Fewer recropping restrictions than some Group 2 herbicides
- Solid broad-spectrum control of grass and broadleaf weeds

## FOR USE ON

- Field peas



## WEEDS

### CONTROLLED

#### Grass Weeds

2 leaf – 4 true leaf or early tiller stage

- Barnyard grass
- Green foxtail
- Fall panicum
- Foxtail barley
- Japanese brome
- Old witchgrass
- Proso millet
- Volunteer barley
- Volunteer corn<sup>1</sup>
- Volunteer tame oats
- Volunteer wheat
- Wild oats
- Yellow foxtail

#### Broadleaf Weeds

Cotyledon – 4 leaf stage

- Cow cockle
- Green smartweed
- Lamb's-quarters<sup>2</sup>
- Redroot pigweed
- Russian thistle
- Shepherd's purse
- Stinkweed<sup>3</sup>
- Volunteer canola<sup>4</sup>
- Wild mustard<sup>5</sup>

### SUPPRESSED<sup>6</sup>

- Cleavers<sup>5</sup>
- Kochia<sup>3</sup>
- Round-leaved mallow
- Wild buckwheat
- Quackgrass<sup>1</sup>

<sup>1</sup> Controlled at the 2-6 leaf stage

<sup>2</sup> 85% control only. Fields with heavy infestations or poor growing conditions at time of application will see weed escapes.

<sup>3</sup> Not including Group 2 resistant biotypes

<sup>4</sup> Including all HT biotypes

<sup>5</sup> Including Group 2 resistant biotypes

<sup>6</sup> Suppression is a visual reduction in plant stand or biomass only as compared to an untreated area and is dependent on crop competition and growing conditions.





**ANACONDA** HERBICIDE

AGRICITY EXCLUSIVE PRODUCT

**REQUIRED SURFACTANT**

- 28% UAN at 0.81 L/ac plus Merge® at 5L per 1,000L of water

**ACTIVE INGREDIENTS**

- Imazamox 70% water dispersible granule (WDG)
- Bentazon 480 g/L emulsifiable concentrate (EC)
- Quizalofop 96 g/L emulsifiable concentrate (EC)

**PACKAGE SIZES**

- **Case:** 40 acres
- **Bulk:** 960 acres

**WHEN TO APPLY**

- **Crop stage:** Peas: 3-6 above ground nodes
- **Weed stage:**  
Broadleaf weeds: 1-4 leaf.  
Grass weeds: 2 leaf – early tiller

**WATER VOLUME**

- Minimum 10 US gallons/acre (40 L/acre)

**RAINFAST PERIOD**

- 6 hours

**RE-CROPPING OPTIONS**

- **3 months after application:** Winter wheat
- **1 year after application:** Barley, canary seed, canola\*, chickpeas, corn, durum wheat, peas, flax, lentils, soybeans, spring wheat, sunflowers, tame oats (plus crops listed in 3 months after application)
- **2 years after application:** Mustard (condiment type only) (plus crops listed in 3 months after application and 1 year after application).
- A field bioassay is recommended before growing crops other than those listed above.

**TANK MIX OPTIONS\***

- None

**STORAGE**

- Do not freeze

**GRAZING AND HARVEST**

- Do not graze treated fields or harvest for forage or hay
- Do not apply within 65 days of harvest

**MIXING INSTRUCTIONS**

1. Fill spray tank 3/4 full of water, start sprayer agitation and continue throughout mixing and spraying process.
2. Add the required amount of **Samurai®** and agitate until dissolved.
3. Add the required amount of **Boa®**.
4. Add the required amount of **Quiz®**.
5. Add required amount of **28% UAN**.
6. Add required amount of Merge surfactant.
7. Add the remaining amount of water and apply.
8. If application is interrupted prior to completing application, re-suspend spray solution by agitating prior to resuming application.
9. Check in-line and nozzle screens between loads and clean if necessary

**UNDERSTANDING PERFORMANCE**

- Optimum control occurs when applied between 12°C and 24° C in warm moist growing conditions when weeds are small and actively growing.
- Use a minimum water volume of 10 gallons/acre for thorough coverage.
- Symptoms of control (discoloration at the growing point) will take between several hours and several days to be visible, depending on growing conditions. Control of weeds may take 3-4 weeks.
- Do not spray **Anaconda** if temperatures of 5° C or less are forecast within 3 days of application. Application just before or after cold temperatures can result in crop injury and reduced weed control.
- Drought, crop stress, and variable cold or hot temperatures will negatively affect performance as weeds are not actively growing.
- Do not apply **Anaconda** to crops that have been subjected to stress from conditions such as hail damage, flooding, drought, hot, humid weather, widely fluctuating temperature conditions, prolonged cold conditions or injury from prior herbicide applications as it may lead to poor results and/or crop damage.
- Occasionally transient crop yellowing may be observed after application, but this is temporary and will be outgrown and should not affect yield.

Always read and follow all label precautions and directions.

\*Initial injury to non-Clearfield® canola may be observed

\*When applying tank mix combinations, always follow all label requirements for each product used in the tank mix. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

†Supported by AgraCity. For a complete list of tank mix options, go to [AgraCity.com/Solutions](http://AgraCity.com/Solutions).

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# AURORA<sup>®</sup> HERBICIDE

**SAME ACTIVE AS HORIZON<sup>®</sup>**  
**Clodinafop Herbicide**

## WHY USE AURORA?

- Same active as Horizon
- Proven control of wild oats and other grass weeds
- Use in all soil zones
- Systemic mode of action for dependable control
- Wide window of application
- Excellent crop safety
- Great tank mix partner with AgraCity cereal broadleaf products
- No re-cropping restrictions
- Bulk package option
- Dependable control of grass weeds in spring and durum wheat at an affordable price

## FOR USE ON

- Spring wheat, durum wheat



## WEEDS CONTROLLED

- Wild oats
- Volunteer tame oats
- Green foxtail
- Yellow foxtail
- Barnyard grass
- Volunteer canary seed
- Persian darnel<sup>1</sup>

<sup>1</sup> Requires 32 acre/case rate (high rate) plus 1.0% v/v Chem Spray<sup>®</sup>



**AURORA** HERBICIDE

SAME ACTIVE AS HORIZON

**REQUIRED SURFACTANT**

- **Chem Spray®** at 8 L per 1,000 L of water

**ACTIVE INGREDIENT**

- Clodinafop 240 g/L emulsifiable concentrate (EC)

**PACKAGE SIZES**

- **Case:** 80 acres
- **Bulk:** 960 acres

**WHEN TO APPLY**

- **Crop stage:**  
1-6 leaf prior to emergence of 4th tiller
- **Weed stage:**  
**Wild oats, canary seed:** 1-6 leaf on main stem  
**Barnyard grass, Persian darnel, green foxtail, yellow foxtail:** 1-5 leaf on the main stem  
**Volunteer oats:** 3-6 leaf stage on the main stem

**WATER VOLUME**

- Ground: 5-10 US gallons/acre (20-40 L/acre)
- Aerial: 3 US gallons/acre (12 L/acre)

**RAINFEST PERIOD**

- 30 minutes

**RE-CROPPING OPTIONS**

- Grow all major crops the year after application

**TANK MIX OPTIONS\***

- **Canuck®†, Clobber® M†, Foxy® Canuck®†, Foxy CM†, Foxy M, Foxy MR, Foxy Pro†, Foxy R†, Foxy® RCK†, Foxy Pro RX†, 2,4-D Ester†, MCPA Ester or Amine†, MPower® RX, Infinity®†, Infinity® FX†, Matador®†, Tilt®†**

**STORAGE**

- Product may be frozen

**GRAZING AND HARVEST**

- Do not graze or feed to livestock within 3 days of application
- Mature crop can be harvested 60 days after application

**MIXING INSTRUCTIONS**

1. Fill sprayer 1/2 full of water, begin agitation and continue throughout mixing and application process.
2. If using a dry broadleaf herbicide, insecticide or fungicide add the required rate and dissolve.
3. Add the required amount of liquid formulation broadleaf herbicide, insecticide, or fungicide.
4. Add the required amount of **Aurora** and agitate for 2-3 minutes.
5. Add the correct amount of **Chem Spray** surfactant and agitate for 1-2 minutes before adding the remainder of water.
6. If application is stopped prior to completion, resuspend spray solution prior to commencing spraying.
7. If an oil film starts to build up in the tank, drain tank and then clean with a detergent.

**UNDERSTANDING PERFORMANCE**

- Optimum control occurs at temperatures between 15°C and 27°C in warm moist growing conditions.
- Use higher water volumes with a dense crop canopy and/or large weeds.
- Typical symptoms (discoloration) may not be noticeable for 1-2 weeks depending on growing conditions and weed susceptibility. Control of weeds may take 3-5 weeks.
- For best results apply to actively growing weeds. Weed control can be reduced or delayed under stress conditions such as drought, heat, insufficient fertility, flooding, insect or disease damage, or prolonged cool temperatures.
- Application under stress conditions is not recommended as it may cause crop damage and weed re-growth.
- Reduction in control of green foxtail and wild oats may be observed when **Aurora** is tank-mixed with 2,4-D Amine or MCPA Amine.

Always read and follow all label precautions and directions.

\*When applying tank mix combinations, always follow all label requirements for each product used in the tank mix. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

†Supported by AgraCity. For a complete list of tank mix options, go to [AgraCity.com/solutions](http://AgraCity.com/solutions).

Aurora®, Canuck®, Clobber®, Foxy® and MPower® are trademarks of AgraCity or its affiliates. All other products are trademarks of their respective holders.

# AURORA® EXTREME HERBICIDE

## AGRACITY EXCLUSIVE PRODUCT Clodinafop Herbicide

### WHY USE AURORA EXTREME?

- AgraCity Exclusive Product – contains a higher rate of active ingredient for high performance control of grass weeds, including Persian dandel
- Use in all soil zones
- Systemic mode of action for dependable control
- Wide window of application
- Excellent crop safety
- Great tank mix partner with AgraCity cereal broadleaf products
- No re-cropping restrictions
- Bulk package option
- Reduced antagonism with products containing 2,4-D, when compared to Traxos® and Axial® products.
- Dependable control of grass weeds in spring and durum wheat at an affordable price

## FOR USE ON

- Spring wheat, durum wheat



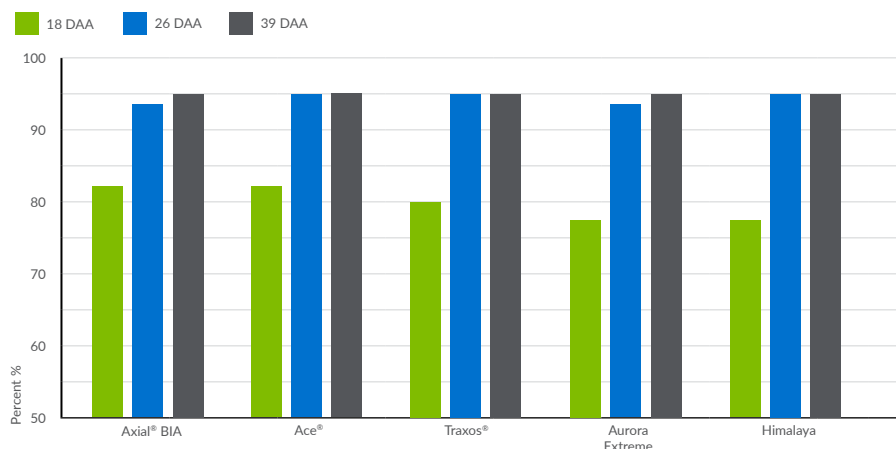
## WEEDS

### CONTROLLED

- Barnyard grass
- Green foxtail
- Persian dandel<sup>1</sup>
- Volunteer canary seed
- Volunteer tame oats
- Wild oats
- Yellow foxtail

<sup>1</sup> Apply with 10L Chem Spray per 1,000L of water

### Wild Oat Control in Wheat





**AURORA EXTREME** HERBICIDE

AGRICITY EXCLUSIVE PRODUCT

**REQUIRED SURFACTANT**

- **Chem Spray®** at 8 L per 1,000 L of water

**ACTIVE INGREDIENT**

- Clodinafop 240 g/L emulsifiable concentrate (EC)

**PACKAGE SIZES**

- **Case:** 80 acres
- **Bulk:** 960 acres

**WHEN TO APPLY**

- **Crop stage:**  
1-6 leaf prior to emergence of 4th tiller
- **Weed stage:**  
**Wild oats, canary seed:** 1-6 leaf on main stem  
**Barnyard grass, Persian darnel, green foxtail, yellow foxtail:** 1-5 leaf on the main stem  
**Volunteer oats:** 3-6 leaf stage on the main stem

**WATER VOLUME**

- Ground: 5-10 US gallons/acre (20-40 L/acre)
- Aerial: 3 US gallons/acre (12 L/acre)

**RAINFAST PERIOD**

- 30 minutes

**RE-CROPPING OPTIONS**

- Grow all major crops the year after application.

**TANK MIX OPTIONS\***

- **Ammo® DR, Canuck®†, Clobber® M†, Foxy® Canuck®†, Foxy® CM†, Foxy® M, Foxy® MR, Foxy® Pro†, Foxy® R†, Foxy® RCK†, Foxy® Pro RX†, 2,4-D Ester†, MCPA Ester or Amine†, MPower® RX, Infinity®†, Infinity® FX†, Matador®†, Tilt®†**

**STORAGE**

- Product may be frozen

**GRAZING AND HARVEST**

- Do not graze or feed to livestock within 3 days of application
- Mature crop can be harvested 60 days after application

**MIXING INSTRUCTIONS**

1. Fill sprayer 1/2 full of water, begin agitation and continue throughout mixing and application process.
2. If using a dry broadleaf herbicide, insecticide or fungicide add the required rate and dissolve.
3. Add the required amount of liquid formulation broadleaf herbicide, insecticide, or fungicide.
4. Add the required amount of **Aurora** and agitate for 2-3 minutes.
5. Add the correct amount of **Chem Spray** surfactant and agitate for 1-2 minutes before adding the remainder of water.
6. If application is stopped prior to completion, resuspend spray solution prior to commencing spraying.
7. If an oil film starts to build up in the tank, drain tank and then clean with a detergent.

**UNDERSTANDING PERFORMANCE**

- Optimum control occurs at temperatures between 12°C and 24°C in warm moist growing conditions.
- Use higher water volumes with a dense crop canopy and or large weeds.
- Typical symptoms (discoloration) may not be noticeable for 1-2 weeks depending on growing conditions and weed susceptibility. Control of weeds may take 3-5 weeks.
- For best results apply to actively growing weeds. Weed control can be reduced or delayed under stress conditions such as drought, heat, insufficient fertility, flooding, insect or disease damage, or prolonged cool temperatures.
- Application under stress conditions is not recommended as it may cause crop damage and weed re-growth.
- Reduction in control of green foxtail and wild oats may be observed when **Aurora® Extreme** is tank-mixed with 2,4-D Amine or MCPA Amine, or products containing these active ingredients.

Always read and follow all label precautions and directions.

\*When applying tank mix combinations, always follow all label requirements for each product used in the tank mix. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

†Supported by AgraCity. For a complete list of tank mix options, go to [AgraCity.com/Solutions](http://AgraCity.com/Solutions).

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# AVIATOR<sup>®</sup> HERBICIDE

GROUP  
2,4

**SAME ACTIVES AS PULSAR<sup>®</sup> + RUMOUR<sup>®</sup>**

**Dicamba + Fluroxypyr + Thifensulfuron + Tribenuron Herbicide**

## WHY USE AVIATOR?

- AgraCity Exclusive Product – Same Actives as Pulsar and Rumour
- Proven control of cleavers, hemp-nettle, redroot pigweed, wild buckwheat
- Controls or suppresses 15 broadleaf weeds
- Use in all soil zones
- Three systemic modes of action for dependable control + resistance management
- Early window of application
- Tank mixable with leading grass herbicides
- No re-cropping restrictions
- Dependable broad-spectrum control of broadleaf weeds in cereal crops at a great price

## FOR USE ON

- Spring wheat, durum wheat, barley

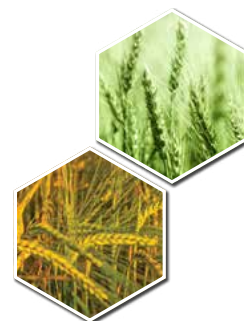
## WEEDS

### CONTROLLED

- Cleavers<sup>2</sup> (1-4 whorls)
- Corn spurry
- Cow cockle
- Green smartweed
- Hemp-nettle
- Kochia
- Lady's-thumb
- Lamb's quarters
- Redroot pigweed
- Stinkweed
- Tartary buckwheat
- Volunteer canola<sup>3</sup>
- Wild buckwheat
- Wild mustard

### SUPPRESSED

- Canada thistle<sup>1</sup>
- Sow thistle (top growth only)



<sup>1</sup> Apply before the bud stage when thistles are <15 cm in height and when majority of thistles have emerged and are actively growing.

<sup>2</sup> Including Group 2 resistant biotypes.

<sup>3</sup> Not including Clearfield<sup>®</sup> tolerant varieties.



# AVIATOR HERBICIDE

SAME ACTIVES AS PULSAR + RUMOUR

## REQUIRED SURFACTANT

- Agral® 90 or AgSurf® at 2 L per 1,000 L water

## ACTIVE INGREDIENT

- Dicamba 480 g/L solution (SN)
- Fluroxypyr 180 g/L emulsifiable concentrate (EC)
- Thifensulfuron methyl 25% + Tribenuron methyl 25% soluble granule (SG)

## PACKAGE SIZE

- **Case:** 40 acres

## WHEN TO APPLY

- **Crop stage:** 2-5 leaf
- **Weed stage:** 2-3 leaf stage and rosettes 5 cm across

## WATER VOLUME

- 10 US gallons/acre (40 L/acre)

## RAINFAST PERIOD

- 1 hour

## RE-CROPPING OPTIONS

- Grow wheat, barley, oats, rye, canola, flax, forage grasses, lentils, mustard, peas, or fields can be summerfallowed the year after application

## TANK MIX OPTIONS\*

- **Aurora®†**, **Traxos®†**

## STORAGE

- Store in secure dry heated storage. If product is frozen bring to room temperature and agitate before use.

## GRAZING AND HARVEST

- Do not graze treated crop or feed to livestock within 7 days of application
- Harvest mature crop 60 days after application

## MIXING INSTRUCTIONS

1. Fill the sprayer 1/2 full of clean water, begin agitation and continue throughout mixing and application process.
2. Add the appropriate rate of **Rumour** and dissolve.
3. If required, add the correct amount of grass weed control tank mix partner.
4. Add the required amount of **Ammo®**, followed by **Foxy®**.
5. Add any other required liquid tank mix partner.
6. Add surfactant, then complete filling tank and apply.
7. Product must be applied within 12 hours in order to remain effective.
8. If application is stopped prior to completion, re-suspend spray solution by full agitation prior to commencing spraying again.

## UNDERSTANDING PERFORMANCE

- Use 50 mesh or larger screens in spraying equipment.
- Optimal control occurs when applied between 12°C and 24°C in warm moist growing conditions.
- Typical symptoms (discoloration) of dying weeds may not be noticeable for 1-3 weeks after application depending upon growing conditions. Control of weeds may take 3-4 weeks.
- Degree of control and duration of effect are dependent on weed sensitivity, weed size, crop competition, growing conditions at and following treatment, and spray coverage.
- Improper or untimely application can result in abnormal bending at the nodes of grain stalks, difficulty in head emergence from the sheath, curled awns, malformed kernels, and sterile florets.
- Weeds hardened off by cold weather or drought stress may not be adequately controlled or suppressed and regrowth may occur.
- Application to crops that are stressed by severe weather conditions, frost, low fertility, water-logged soil (soil at or near field capacity), disease or insect damage may result in crop injury. Drought, disease, or insect damage following application may also result in crop injury.
- Product will degrade if left in the sprayer for more than 24 hours after mixing.
- Dicamba may drift and cause injury to sensitive crops. Do not apply when winds are blowing towards sensitive crops, or during conditions conducive of thermal inversions.

Always read and follow all label precautions and directions.

\*When applying tank mix combinations, always follow all label requirements for each product used in the tank mix. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

†Supported by AgraCity. For a complete list of tank mix options, go to [AgraCity.com/Solutions](http://AgraCity.com/Solutions).

Ammo®, Aurora®, Aviator®, Foxy®, and Rumour® are trademarks of AgraCity or its affiliates. All other products are trademarks of their respective holders.

# BATTLESTAR® HERBICIDE

**AGRACITY EXCLUSIVE PRODUCT**  
**Florasulam + Fluroxypyr Herbicide**

## WHY USE BATTLESTAR?

- Powerful control of hemp-nettle, redroot pigweed, smartweed and volunteer canola
- Great control of Group 2 resistant cleavers
- Use in all soil zones
- 2 Different actives with systemic mode of action
- Wide window of application
- Excellent crop safety
- Great tank mix partner with Himalaya®
- No re-cropping restrictions

## FOR USE ON

- Spring wheat, durum wheat, barley

## WEEDS

### CONTROLLED

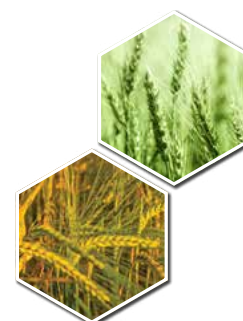
With the addition of 250 ml MCPA 600 Ester

- Annual sunflower
- Flixweed
- Hemp-nettle
- Lamb's-quarters
- Ragweed
- Redroot pigweed
- Shepherd's-purse
- Smartweed
- Volunteer canola
- Wild mustard

### SUPPRESSED

With the addition of 250 ml MCPA 600 Ester

- Stork's bill



**BATTLESTAR** HERBICIDE

AGRICITY EXCLUSIVE PRODUCT

**REQUIRED SURFACTANT**

- None required

**ACTIVE INGREDIENTS**

- Florasulam 2.5 g/L + Fluroxypyr 100 g/L suspension

**PACKAGE SIZE**

- **Case:** 40 acres

**WHEN TO APPLY**

- **Crop stage:** 2 leaf - just before flag leaf
- **Weed stage:** 1 - 4 leaf

**WATER VOLUME**

- 10 US gallons/acre (40 L/acre)

**RAINFAST PERIOD**

- 2 hours

**RE-CROPPING OPTIONS**

- Grow all major crops the year after application.

**TANK MIX OPTIONS\***

- **Ace®† II, Himalaya®†**, Assert 300®, Axial® 100, MCPA Ester 600, Simplicity™

**STORAGE**

- Store in dry heated area; if product is frozen, bring to room temp and agitate before use.

**GRAZING AND HARVEST**

- Allow 7 days after application before cutting hay or harvesting forage.
- Mature crop may be harvested 60 days after application.

**MIXING INSTRUCTIONS**

1. Fill the spray tank 1/2 full of water, begin agitation, and continue throughout mixing and application process.
2. Add required rate of any dry formulation herbicide (such as **Himalaya** or Simplicity) and dissolve.
3. Add the required rate of **Battlestar** and mix thoroughly.
4. If required, add the correct of liquid grass weed control herbicide.
5. Add the required rate of MCPA Ester.
6. Add any required surfactant, complete filling tank and apply.
7. If application is stopped prior to completion, re-suspend spray solution by full agitation prior to commencing spraying again.

**UNDERSTANDING PERFORMANCE**

- For optimal performance apply between 12°C and 24°C in warm moist growing conditions.
- Typical symptoms (discolouration) of dying weeds may not be noticeable for 1-2 weeks after application, depending upon growing conditions and weed susceptibility. Control of weeds may take 3-4 weeks.
- Degree of control and duration of effect are dependent on weed sensitivity, weed size, crop competition, growing conditions at and following treatment, and spray coverage.
- Weeds hardened off by cold weather or drought stress may not be adequately controlled or suppressed and re-growth may occur.
- If weeds are stressed due to drought, flooding or prolonged hot or cool temperatures less than 8° C or greater than 27° C, control can be reduced or delayed since weeds are not actively growing.
- Do not make applications to weeds stressed longer than 20 days due to lack of moisture as unsatisfactory control can result.

Always read and follow all label precautions and directions.

\*When applying tank mix combinations, always follow all label requirements for each product used in the tank mix. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

†Supported by AgraCity. For a complete list of tank mix options, go to [AgraCity.com/Solutions](http://AgraCity.com/Solutions)

Ace®, Battlestar® and Himalaya® are trademarks of AgraCity or its affiliates. All other products are trademarks of their respective holders.



# BOA<sup>®</sup> HERBICIDE

**SAME ACTIVE AS BASAGRAN<sup>®</sup>**  
**Bentazon Herbicide**

## WHY USE BOA?

- Same active as Basagran
- Control of lamb's-quarters, stinkweed and volunteer canola
- Controls or suppresses 29 broadleaf weeds
- Use in all soil zones
- Use in beans, field peas, soybeans, and 28 other crops
- Alternative (contact) mode of action
- Numerous tank mix options
- No re-cropping restrictions
- Proven broadleaf weed control option for pulse crops at an affordable price

## FOR USE ON

- Dry beans, field peas, fababeans, soybeans.
- See product label for complete list of registered crops.

## WEEDS

### CONTROLLED<sup>1</sup>

- |                                   |                                  |                                 |
|-----------------------------------|----------------------------------|---------------------------------|
| • Bird rape                       | • Flower-of-an-hour              | • Russian thistle <sup>4</sup>  |
| • Buttercup                       | • Giant ragweed                  | • Shepherd's purse              |
| • Canada thistle <sup>2</sup>     | • Hairy galinsoga                | • Stinkweed                     |
| • Cleavers (1-3 whorl)            | • Hairy nightshade               | • Stork's-bill                  |
| • Cocklebur                       | • Jimsonweed                     | • Velvetleaf <sup>6</sup>       |
| • Common chickweed                | • Lady's-thumb                   | • Volunteer canola <sup>7</sup> |
| • Common groundsel <sup>3</sup>   | • Lamb's-quarters <sup>3</sup>   | • Wild mustard                  |
| • Common ragweed <sup>3</sup>     | • Low cudweed                    | • Wild radish                   |
| • Corn spurry                     | • Purslane                       | • Yellow nutsedge <sup>2</sup>  |
| • Field bindweed <sup>2,4,5</sup> | • Redroot pigweed <sup>3,4</sup> |                                 |

<sup>1</sup> See label for weed-specific application rates and timing.

<sup>2</sup> For perennial weeds, repeat application of Boa 7 to 15 days after first if needed.

<sup>3</sup> Includes triazine-resistant biotypes

<sup>4</sup> Suppression

<sup>5</sup> Treat before it is dark green and has begun to trail

<sup>6</sup> Will defoliate 4 leaf and larger but regrowth may occur

<sup>7</sup> Only provides control in field peas up to 4 leaf at 404 ml/acre.

**NOTE: Weed control with Boa is crop, weed and rate specific, and different additives or surfactants will be required depending on the crop and tank mix partner. Please read the product label for specific recommendations.**



## REQUIRED SURFACTANT

- ASSIST OR XA Oil Concentrate at 0.4 – 0.8 L/acre
- Soybeans require UAN – see label for information
- Dry beans require AMS – see label for info
- See label for complete list of adjuvants by crop

## ACTIVE INGREDIENT

- Bentazon 480 g/L solution

## PACKAGE SIZES

- **Case:** 16-20 acres
- **Bulk:** 384-480 acres

## WHEN TO APPLY

- **Crop stage:**  
**Dry beans:** After the first trifoliolate  
**Fababean:** At least 10 cm tall or after 2-3 leaf stage  
**Peas:** 3 node to flowering  
**Soybeans:** All stages
- See label or provincial crop protection guides for complete list of timing by crop.

## WATER VOLUME

- 10-40 US gallons/acre. See label for application volume by crop.

## RAINFAST PERIOD

- 6 hours

## RE-CROPPING OPTIONS

- Grow all major crops the year after application.

## TANK MIX OPTIONS\*

- Quiz<sup>®†</sup>, Pinnacle<sup>®</sup> and Reflex<sup>®</sup>

## STORAGE

- Store in heated storage. If product is frozen, warm to room temperature and agitate before use.

## GRAZING AND HARVEST

- Do not graze treated fields or cut treated forage for silage or hay. There is no data to support this use.

## MIXING INSTRUCTIONS

1. Fill spray tank 1/2 full of water, start sprayer agitation and throughout mixing and application process.
2. If required add correct amount of nitrogen source. (soybeans only).
3. If required add the correct amount of Pinnacle<sup>1</sup> (soybeans only) or Reflex (dry common beans only).
4. If required add the correct amount of other tank mix partners.
5. Add the required amount of **Boa**.
6. Add the required amount of surfactant.
7. Add remainder of water and apply.

<sup>1</sup>On repeat tank loads, prepare a Pinnacle/water slurry in a separate container with clean water before adding to spray tank.

## UNDERSTANDING PERFORMANCE

- Thorough coverage is critical, use a minimum of 10 gallons/acre of water
- Optimal control occurs when applied between 12°C and 24° C in warm moist growing conditions when weeds are actively growing.
- Temperatures below 5° C will prevent optimum herbicide performance.
- Avoid spraying under temperatures greater than 29°C, drought or adverse growing conditions.
- Poor results can be expected if weeds are past the 4 leaf stage, poor spray coverage is poor, or a lower than recommended rate is used. Drought, crop stress, and cold or hot temperatures will also negatively affect performance as weeds are not actively growing.
- Do not apply **Boa** to crops that have been subjected to stress from conditions such as hail damage, flooding, drought, hot, humid weather, widely fluctuating temperature conditions, prolonged cold conditions or injury from prior herbicide applications as it may lead to poor results and/or crop damage may result.
- Occasionally transient crop yellowing, speckling or bronzing may be observed after application, but this is temporary and will be outgrown and should not affect yield.

Always read and follow all label precautions and directions.

\*When applying tank mix combinations, always follow all label requirements for each product used in the tank mix. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

<sup>†</sup>Supported by AgraCity. For a complete list of tank mix options, go to AgraCity.com/Solutions.

Boa<sup>®</sup> and Quiz<sup>®</sup> are trademarks of AgraCity or its affiliates. All other products are trademarks of their respective holders.

# BOA® IQ HERBICIDE

## AGRACITY EXCLUSIVE PRODUCT Bentazon + Quizalofop Herbicide

### WHY USE BOA IQ?

- AgraCity Exclusive Product - high rates of active ingredients for one-pass weed control of tough grasses like foxtail barley and Group 2-resistant broadleaves such as cleavers
- Control of volunteer canola, lamb's-quarters, stinkweed, and wild oats
- Controls or suppresses 28 broadleaf weeds + 12 grass weeds
- Improved control of seedling foxtail barley, Japanese brome, and quackgrass.
- Use in all soil zones
- Use in beans, field peas, soybeans
- 2 modes of action for optimum weed control
- No re-cropping restrictions
- Proven broadleaf and grass weed control option for pulse crops at an affordable price

## FOR USE ON

- Dry beans, field peas, fababeans, soybeans



## WEEDS

### CONTROLLED<sup>1</sup>

#### Broadleaf Weeds<sup>1</sup>

- Bird rape
- Buttercup
- Canada thistle<sup>2</sup>
- Cleavers (1-3 whorl)
- Cocklebur
- Common chickweed
- Common groundsel<sup>3</sup>
- Common ragweed<sup>3</sup>
- Corn spurry
- Field bindweed<sup>2,4,5</sup>
- Flower-of-an-hour
- Giant ragweed
- Hairy galinsoga
- Hairy nightshade
- Jimsonweed
- Lady's-thumb
- Lamb's-quarters<sup>3</sup>
- Low cudweed
- Purslane
- Redroot pigweed<sup>3,4</sup>
- Russian thistle<sup>4</sup>
- Shepherd's purse
- Stinkweed
- Stork's bill
- Velvetleaf<sup>6</sup>
- Volunteer canola<sup>7</sup>
- Wild mustard
- Wild radish

#### Grass Weeds<sup>8,9</sup>

- Barnyard grass
- Green foxtail
- Fall panicum
- Foxtail barley<sup>10</sup> (3 – 4 leaf + 3 tillers)
- Japanese brome<sup>10</sup> (2-5 leaf stage)
- Old witchgrass
- Proso millet
- Quackgrass<sup>10</sup> (2-6 leaf)
- Wild Oats (1-5 leaf, up to 2 tillers)

- Volunteer cereals
- Volunteer corn (2 – 6 leaf)
- Yellow foxtail

<sup>1</sup>Weeds must be small and actively growing to be controlled. See Boa label for weed specific application rates and timing

<sup>2</sup>For improved control of perennial weeds, apply Boa alone 7 to 15 days after application of Boa IQ if needed

<sup>3</sup>Includes triazine-resistant biotypes

<sup>4</sup>Suppression only

<sup>5</sup>Treat before it is dark green and has begun to trail

<sup>6</sup>Will defoliate 4 leaf and larger but regrowth may occur

<sup>7</sup>Only provides control when weeds are < 8 leaf stage

<sup>8</sup>Apply when grass weeds are 2 leaf to early tillering unless otherwise indicated

<sup>9</sup>Group 1 resistant biotypes will not be controlled

<sup>10</sup>Spring seedlings only

**NOTE: Weed control with Boa IQ is crop, weed and rate specific, and different additives or surfactants will be required depending on the crop and tank mix partner. Please contact AgraCity or review the Boa or Quiz product label for crop specific recommendations.**



## REQUIRED SURFACTANT

- Merge® at 5 L per 1,000 L water.
- Soybeans require UAN at 4 L/acre for improved control of velvetleaf and lamb's-quarters
- Dry beans require AMS at 15 L per 1,000 L water for more consistent control of broadleaf weeds

## ACTIVE INGREDIENTS

- Bentazon 480 g/L, solution
- Quizalofop 96 g/L emulsifiable concentrate (EC)

## PACKAGE SIZES

- **Case:** 20 acres
- **Bulk:** 500 acres

## WHEN TO APPLY

- **Crop stage:**  
**Dry beans:** After the first trifoliate  
**Fababean:** At least 10 cm tall or after 2-3 leaf stage  
**Peas:** 3 node to flowering  
**Soybeans:** All stages
- **Weed stage:** See "Weeds Controlled" list

## WATER VOLUME

- 10-40 US gallons/acre (40-160 L/acre)

## RAINFEST PERIOD

- 6 hours

## RE-CROPPING OPTIONS

- Grow all major crops the year after application.

## TANK MIX OPTIONS\*

- None

## STORAGE

- Store in heated storage. If product is frozen, warm to room temperature and agitate before use.

## GRAZING AND HARVEST:

- Do not graze treated fields or cut treated forage for silage or hay. There is no data to support this use.

## MIXING INSTRUCTIONS

1. Fill spray tank 1/2 full of water, start sprayer agitation and continue agitating throughout mixing and application process.
2. If required, add correct amount of nitrogen source. (soybeans and dry beans only).
3. Add the required amount of **Boa**.
4. Add the required amount of **Quiz**®.
5. Add the required amount of surfactant.
6. Add remainder of water and apply.

## UNDERSTANDING PERFORMANCE

- Thorough coverage is critical, use a minimum of 10 gallons/acre of water
- Optimal control occurs when applied between 12°C and 24°C in warm moist growing conditions when weeds are actively growing.
- Temperatures below 5°C will prevent optimum herbicide performance.
- Poor results on broadleaf weeds can be expected if weeds are past the 4 leaf stage or if spray coverage and/or crop competition is poor.
- Drought, crop stress, and cold or hot temperatures will negatively affect performance as weeds are not actively growing.
- Do not apply **Boa IQ** to crops that have been subjected to stress from conditions such as hail damage, flooding, drought, hot, humid weather, widely fluctuating temperature conditions, prolonged cold conditions or injury from prior herbicide applications as this may lead to poor results and/or crop damage.
- Avoid spraying in temperatures above 28°C or during adverse growing conditions.
- Occasionally transient crop yellowing, speckling or bronzing may be observed after application, but this is temporary and will be outgrown and should not affect yield.

Always read and follow all label precautions and directions.

\*When applying tank mix combinations, always follow all label requirements for each product used in the tank mix. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

†Supported by AgraCity.

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NOTE: Boa Pro is not covered by the AgraCity Product Performance Guarantee

# BOA<sup>®</sup> PRO HERBICIDE

**SAME ACTIVES AS VIPER<sup>®</sup>**  
**Bentazon + Imazamox Herbicide**

## WHY USE BOA PRO?

- Same actives as Viper<sup>®</sup>
- Proven control of volunteer canola, wild mustard and grass weeds
- Controls or suppresses 20 broadleaf and grass weeds
- Use in all soil zones
- Multiple modes of action for resistance management
- Early weed control timing for higher yields
- Fewer re-cropping restrictions than some Group 2 only herbicide products
- Tank mix options for improved grass control
- Trusted broad-spectrum control of grass and broadleaf weeds in pulse crops

## FOR USE ON

- Field peas



## WEEDS

### CONTROLLED

#### Grass Weeds

1-4 main leaf stage:

- Barnyard grass
- Green foxtail
- Volunteer barley
- Volunteer wheat<sup>1</sup>
- Volunteer tame oats
- Wild oats

#### Broadleaf Weeds

Cotyledon-4 leaf stage

- Cow cockle
- Green smartweed
- Lamb's-quarters<sup>2</sup>
- Redroot pigweed
- Russian thistle
- Shepherd's purse
- Stinkweed<sup>3</sup>
- Volunteer canola<sup>4</sup>
- Wild mustard<sup>5</sup>

### SUPPRESSED<sup>6</sup>

- Cleavers<sup>5</sup>
- Japanese brome
- Kochia<sup>3</sup>
- Round-leaved mallow
- Wild buckwheat

<sup>1</sup> Not including Clearfield<sup>®</sup> wheat

<sup>2</sup> 85% control only. Fields with heavy infestations or poor growing conditions at time of application will see weed escapes.

<sup>3</sup> Not including Group 2 resistant biotypes

<sup>4</sup> Including all HT biotypes.

<sup>5</sup> Including Group 2 resistant biotypes

<sup>6</sup> Suppression is a visual reduction in plant stand or biomass only as compared to an untreated area and is dependent on crop competition and growing conditions.





**BOA PRO** HERBICIDE

SAME ACTIVES AS VIPER

**REQUIRED SURFACTANT**

- 28% UAN at 0.81 L/ac plus Merge® at 0.5% v/v

**ACTIVE INGREDIENTS**

- Imazamox 70% water dispersible granule (WDG)
- Bentazon 480 g/L solution

**PACKAGE SIZES**

- **Case:** 40 acres
- **Bulk:** 960 acres

**WHEN TO APPLY**

- Peas: 3-6 above ground nodes

**WATER VOLUME**

- Minimum 10 US gallons/acre (40 L/acre)

**RAINFAST PERIOD**

- 6 hours

**RE-CROPPING OPTIONS**

- **3 months after application:** Winter wheat
- **1 year after application:** barley, canary seed, canola<sup>™</sup>, chickpeas, corn, durum wheat, peas, flax, lentils, soybeans, spring wheat, sunflowers, tame oats.
- **2 years after application:** the above crops plus mustard (condiment type only)
- A field bioassay is recommended before growing crops other than those listed above.

**TANK MIX OPTIONS\***

- Quiz®

**STORAGE**

- Do not freeze.

**GRAZING AND HARVEST**

- Do not graze treated pea fields or cut for feed within 20 days of application.
- Do not apply within 60 days of harvest.

**MIXING INSTRUCTIONS**

1. Fill spray tank 3/4 full of water, start sprayer agitation and continue throughout mixing and spraying process.
2. Add the required amount of **Samurai®** and agitate until dissolved.
3. Add the required amount of **Boa**.
4. Add the required amount of grass tank mix partner if desired.
5. Add required amount of 28% UAN.
6. Add the required amount of Merge surfactant.
7. Add the remaining amount of water and apply.
8. If application is interrupted prior to completing application, re-suspend spray solution by agitating prior to resuming application
9. Check in-line and nozzle screens between loads and clean if necessary.

**UNDERSTANDING PERFORMANCE**

- Optimum control occurs when applied between 12°C and 24° C in warm moist growing conditions.
- Thorough coverage is critical — use a minimum water volume of 10 gallons/acre.
- Symptoms of control (discoloration at the growing point) will take between several hours and several days to be visible, depending on growing conditions. Control of weeds may take 3-4 weeks.
- Do not spray **Boa Pro** if temperatures of 5° C or less are forecast within 3 days of application. Application just before or after cold temperatures can result in crop injury and reduced weed control.
- Drought, crop stress, and cold or hot temperatures will negatively affect performance as weeds are not actively growing.
- Do not apply **Boa Pro** to crops that have been subjected to stress from conditions such as hail damage, flooding, drought, hot, humid weather, widely fluctuating temperature conditions, prolonged cold conditions or injury from prior herbicide applications as this may lead to poor results and/or crop damage.
- Occasionally transient crop yellowing may be observed after application, but this is temporary and will be outgrown and should not affect yield.

Always read and follow all label precautions and directions.

<sup>™</sup> Initial injury to non-Clearfield® canola may be observed

\*When applying tank mix combinations, always follow all label requirements for each product used in the tank mix. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

<sup>†</sup>Supported by AgraCity. For a complete list of tank mix options, go to [AgraCity.com/Solutions](http://AgraCity.com/Solutions).

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# CANUCK® HERBICIDE

**SAME ACTIVES AS BUCTRIL® M**  
**Bromoxynil + MCPA Ester Herbicide**

## WHY USE CANUCK?

- Same actives as Buctril M
- Trusted control of wild buckwheat and volunteer canola
- Control or suppression of 30 annual and perennial broadleaf weeds
- Use in all soil zones
- Use on many different crops
- Multiple modes of action, contact and systemic
- Wide window of application
- Good crop safety
- Great tank mix partner with **Aurora®**, **HellCat®**, or **Himalaya®**
- No re-cropping restrictions
- Proven control of broadleaf weeds at an affordable price

## FOR USE ON

- Spring wheat, durum wheat, winter wheat, barley, flax, oats, field and sweet corn, fall rye, canary seed (seed production), seedling and established grasses

## WEEDS

### CONTROLLED<sup>1</sup>

#### Seedling to 4-leaf stage

- American nightshade
- Ball mustard
- Bluebur
- Cocklebur
- Cow cockle<sup>1</sup>
- Flixweed
- Green smartweed
- Kochia<sup>2</sup>
- Lady's-thumb
- Night flowering catchfly
- Pale smartweed
- Redroot pigweed
- Russian thistle<sup>2</sup>
- Scentless chamomile<sup>3</sup>
- Shepherd's-purse
- Velvetleaf<sup>4</sup>
- Volunteer canola<sup>5</sup>
- Volunteer sunflower

#### Seedling 6-leaf stage

- Wild tomato

#### Seedling to 8-leaf stage

- Common buckwheat
- Common groundsel
- Common ragweed
- Lamb's-quarters
- Stinkweed
- Tartary buckwheat
- Wild buckwheat
- Wild mustard
- Wormseed mustard

#### TOP GROWTH CONTROL

- Canada thistle
- Perennial sow-thistle



<sup>1</sup> In normal conditions cow cockle will be controlled up to the 4-leaf stage. Plants beyond this stage are unlikely to be controlled.

<sup>2</sup> Spray before plants are 5 cm high.

<sup>3</sup> Spring annuals only.

<sup>4</sup> Spray before plants are 8 cm high.

<sup>5</sup> Including all HT varieties.



**CANUCK** HERBICIDE

SAME ACTIVES AS BUCTRIL M

**REQUIRED SURFACTANT**

- None required

**ACTIVE INGREDIENTS**

- Bromoxynil 280g/L + MCPA Ester 280 g/L emulsifiable concentrate (EC)

**PACKAGE SIZES**

- **Case:** 40 acres
- **Bulk:** 300 or 960 acres

**WHEN TO APPLY**

- **Crop stage:**  
**Spring wheat, durum wheat, barley:** 2 leaf to early flag leaf  
**Winter wheat:** 2 to 4 leaf stage in the fall, emergence to early flag leaf in the spring  
**Flax:** 2 to 4 inches tall  
**Corn:** 4 to 6 leaf  
**Canary seed:** 3 to 5 leaf  
**Seedling grasses:** 2 to 4 leaf  
**Established grasses** (timothy only): Prior to shot blade in seed production year
- **Weed stage:** See "Weeds Controlled" section

**WATER VOLUME**

- **Ground:** Minimum 5 US gallons/acre (20 L/acre) in all crops except corn and seedling grasses.  
 Corn: 20-30 US gallons/acre. (80-120 L/acre)  
 Seedling grasses: minimum US 15 gallons/acre. (60 L/acre).
- **Aerial** (Wheat, barley, oats only): Minimum 3 US gallons/acre. (12 L/acre). Use higher rates in heavier crop canopy.

**RAINFEST PERIOD**

- 1 hour

**RE-CROPPING OPTIONS**

- Grow all major crops the year after application

**TANK MIX OPTIONS\***

- **Ace<sup>®†</sup> II, Aurora<sup>®†</sup>, Aurora<sup>®</sup> Extreme, Hellcat<sup>®</sup>, Himalaya<sup>®</sup>, MPower<sup>®</sup> RX<sup>†</sup>, Axial<sup>®†</sup>, Simplicity<sup>™†</sup>, Varro<sup>®†</sup>**
- Flax only: **Independence<sup>®†</sup>**

**STORAGE**

- Product may be frozen; if product becomes frozen, gently warm contents and agitate container before use

**GRAZING AND HARVEST**

- Do not graze or cut for forage hay until 30 days after application
- Mature crop may be harvested 30 days after application

**MIXING INSTRUCTIONS**

1. Fill the spray tank 1/2 full of water, start agitation and continue throughout mixing and application process.
2. If required add the correct amount of dry formulation products.
3. If required add correct amount of grassy weed tank mix partner.
4. Add the required amount of **Canuck**.
5. Add any required surfactant.
6. Complete filling of sprayer and apply.
7. If application is stopped prior to completion, re-suspend spray solution by full agitation prior to commencing spraying again.

**UNDERSTANDING PERFORMANCE**

- Good coverage is essential. Use higher water volumes in heavy crop canopy or weed pressure.
- Optimum control occurs when applied between 15°C and 27°C in warm moist growing conditions when weeds are in the seedling stage.
- Typical symptoms of dying weeds will be visible from several hours to several days after application depending on growing conditions. Control of weeds may take up to 2-3 weeks.
- Avoid spraying in severe drought.
- Do not spray flax in hot humid weather when daytime temperatures are over 25° C.
- Weed control may be reduced during stress conditions, e.g. drought, heat or cold stress, if weeds have initiated flowering, or if heavy infestations exist.

Always read and follow all label precautions and directions.

\*When applying tank mix combinations, always follow all label requirements for each product used in the tank mix. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

†Supported by AgraCity. For a complete list of tank mix options, go to [AgraCity.com/Solutions](http://AgraCity.com/Solutions).

Ace<sup>®</sup>, Aurora<sup>®</sup>, Canuck<sup>®</sup>, Hellcat<sup>®</sup>, Himalaya<sup>®</sup>, Independence<sup>®</sup> and MPower<sup>®</sup> are trademarks of AgraCity or its affiliates. All other products are trademarks of their respective holders

# CLOBBER® HERBICIDE

**SAME ACTIVE AS LONTREL™**  
**Clopyralid Herbicide**

## WHY USE CLOBBER?

- Same active as Lontrel
- Best in-crop thistle control available
- Use in all soil zones
- Use in many different crops
- Systemic mode of action for dependable control
- Flexible rates for different levels of control
- Wide window of application
- Excellent crop safety
- Extended control of Canada thistle (high rate only)
- Numerous tank mix options
- Outstanding in-crop thistle control at an affordable price

## FOR USE ON

- Canola, spring wheat, barley, oats, flax, sugar beets, seedling and established forage grasses, rangeland and non-crop farmland
- Other crops – see label.

## WEEDS CONTROLLED

### 170 ml/acre:

- Canada thistle (top growth)
- Vetch
- Alsike clover

### 227 ml/acre:

- Canada thistle
- Scentless chamomile
- Wild buckwheat
- Perennial sow thistle (top growth)
- Common groundsel
- Volunteer alfalfa
- Common ragweed
- Sheep sorrel<sup>1</sup>
- Ox-eye daisy<sup>1</sup>

### 340 ml/acre:

- Previously listed weeds
- Canada thistle (season long control of top growth with a reduction in population the following year)

<sup>1</sup> Suppression



**CLOBBER** HERBICIDE

SAME ACTIVE AS LONTREL

**REQUIRED SURFACTANT**

- None required

**ACTIVE INGREDIENT**

- Clopyralid 360 g/L Liquid

**PACKAGE SIZE**

- **Cereals or flax:** 160 acres/case when mixed with MCPA or 2,4-D amine or ester
- **Canola:** 52–105 acres/case
- See label for rates by crop, weed, and tank mix partner

**WHEN TO APPLY**

- **Crop stage:**  
**Canola:** 2 to 6 leaf  
**Spring wheat, barley, oats:** 3 leaf to early flag  
**Flax:** 2 to 6 inches tall  
**Other crops:** See label or provincial crop guide
- **Weed stage:** Rosette – pre-bud

**WATER VOLUME**

- 10 US gallons/acre (40 L/acre)

**RAINFAST PERIOD**

- 4 hours

**RE-CROPPING OPTIONS**

- **1 year after application:** Wheat, barley, canola, rye, sugar beets, flax, mustard, oats, or summerfallow.
- Do not grow crops other than those listed above for at least 2 years.
- See label for additional re-cropping information

**TANK MIXES OPTIONS\***

- **Cereals:** Ace<sup>®†</sup> II, Aurora<sup>®†</sup>, HellCat<sup>®†</sup>, Himalaya<sup>®†</sup>, Battlefront<sup>®†</sup>, 2,4-D, MCPA amine or ester
- **Roundup Ready<sup>®</sup> canola:** Disruptor<sup>®</sup> or Destroyer<sup>®</sup> glyphosate<sup>†</sup>, Independence<sup>®</sup>
- **Clearfield<sup>®</sup> canola:** Odyssey<sup>®</sup>, Ares<sup>™†</sup>, Amity<sup>™†</sup>
- **Flax:** Independence<sup>®</sup>, MCPA Ester
- See label for complete list of tank mix options and use rates

**STORAGE**

- Store away from food, feedstuff, fertilizer, seeds, insecticides, fungicides or other pesticides or herbicides intended to be used on crops sensitive to Clobber. Store in heated storage; if product is frozen, bring to room temperature and agitate before use

**GRAZING AND HARVEST**

- Treated areas may be grazed immediately after application

**MIXING INSTRUCTIONS**

1. Fill the spray tank 1/2 full of water, begin agitation and continue throughout mixing and application process.
2. Add the required amount of any dry formulation products.
3. Add the required amount of grass or broadleaf weed control products.
4. Add the required amount of **Clobber**.
5. Add any required surfactants, complete filling of sprayer and apply.
6. If application is stopped prior to completion, re-suspend spray solution by full agitation prior to commencing spraying again.

**UNDERSTANDING PERFORMANCE**

- Best control will be when temperatures are 12°C - 24°C during warm moist growing conditions.
- Thistle control is rate dependent. Higher rates will improve control and the highest rate will extend control into the following year.
- Applications should be made when Canada thistle, perennial sow-thistle and scentless chamomile are in the rosette to pre-bud stage of growth. Best results are obtained when Canada thistle is actively growing, and soil moisture is adequate for rapid growth.
- Maintain high water volumes for control of wild buckwheat, especially if it is larger stage.
- Under dry soil conditions and poor growing conditions, control of Canada thistle and other weeds may be severely reduced.
- Do not make applications to weeds stressed longer than 20 days due to lack of moisture as unsatisfactory control can result.

Always read and follow all label precautions and directions.

\*When applying tank mix combinations, always follow all label requirements for each product used in the tank mix. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

†Supported by AgraCity. For a complete list of tank mix options, go to [AgraCity.com/Solutions](http://AgraCity.com/Solutions).

Ace<sup>®</sup> II, Aurora<sup>®</sup>, Battlefront<sup>®</sup>, Clobber<sup>®</sup>, Destroyer<sup>®</sup>, Disruptor<sup>®</sup>, HellCat<sup>®</sup>, Himalaya<sup>®</sup>, and Independence<sup>®</sup> are trademarks of AgraCity or its affiliates. All other products are trademarks of their respective holders.



# CLOBBER<sup>®</sup> M HERBICIDE

**SAME ACTIVES AS CURTAIL<sup>™</sup> M**  
**Clopyralid + MCPA Ester Herbicide**

## WHY USE CLOBBER M?

- Same actives as Curtail M
- Outstanding control of Canada thistle and wild buckwheat
- Controls or suppresses 28 annual and perennial broadleaf weeds (high rate only)
- Use in all soil zones
- Systemic mode of action
- Wide window of application
- Excellent crop safety
- Great tank mix with Aurora<sup>®</sup>, HellCat<sup>®</sup> or Himalaya<sup>™</sup> in cereals
- Numerous other tank mix options
- Best value for thistle and annual broadleaf control at an affordable price

## FOR USE ON

- Spring wheat, durum wheat, barley, oats, flax, established timothy, canary seed
- Do not use on timothy destined for export

## WEEDS

### CONTROLLED

#### Low Rate (30 acres/case):

- Canada thistle<sup>1</sup> (low infestations)
- Annual sunflower
- Burdock
- Cocklebur
- Field horsetail<sup>2</sup>
- Flixweed<sup>3</sup> (2-4 leaf)
- Lamb's-quarters
- Plantain<sup>2</sup>
- Prickly lettuce
- Ragweed
- Shepherd's-purse<sup>3</sup>
- Stinkweed<sup>3</sup>
- Vetch
- Volunteer sunflower
- Wild mustard
- Wild radish

#### High Rate (40 acres/case)

##### Includes weeds controlled at the low rate:

- Canada thistle<sup>1</sup> (med-high infestations)
- Common groundsel
- Dandelion<sup>3</sup>
- Kochia<sup>4</sup> (2-4 leaf)
- Redroot pigweed
- Russian pigweed
- Scentless chamomile (2-4 leaf)
- Smartweed
- Sow-thistle (annual)
- Sow-thistle<sup>4</sup> (perennial)
- Tartary buckwheat
- Volunteer canola<sup>5</sup>
- Wild buckwheat

<sup>1</sup> Season-long control with some regrowth in the fall (top growth control)

<sup>2</sup> Top growth control only

<sup>3</sup> Spring rosettes only

<sup>4</sup> Suppression

<sup>5</sup> Including all HT varieties



**CLOBBER M** HERBICIDE

SAME ACTIVES AS CURTAIL M

**REQUIRED SURFACTANT**

- None required

**ACTIVE INGREDIENT**

- Clopyralid 50 g a.e./L + MCPA 280 g a.e./L emulsifiable concentrate (EC)

**PACKAGE SIZES**

- **Case:** 30-40 acres
- **Bulk:** 120-160 or 720-960 acres

**WHEN TO APPLY**

- **Crop stage:**  
**Cereals:** 3 leaf to just before flag leaf  
**Flax:** 2 to 6 inches tall  
**Timothy, Canary seed:** 3 leaf to just before flag leaf emergence.
- **Weed stage:** 1-4 leaf stage, and when Canada thistle is between 10 cm and early bud stage

**WATER VOLUME**

- 10-15 US gallons/acre (40-60 L/acre)

**RAINFAST PERIOD**

- 4 hours

**RE-CROPPING OPTIONS**

- 1 year after application: Wheat, barley, canola, rye, sugar beets, corn, flax, mustard, oats, forage grasses, peas<sup>†</sup> or summerfallow.
- Do not grow crops other than those listed above for at least 2 years.

**TANK MIX OPTIONS\***

- **Cereals:** Ace<sup>®†</sup> II, Aurora<sup>®†</sup>, Aurora<sup>®</sup> Extreme, Hellcat<sup>®†</sup>, Himalaya<sup>®†</sup>, Independence<sup>®†</sup>, MPower<sup>®</sup> RX<sup>†</sup>, Achieve<sup>™†</sup>, Axial<sup>®†</sup>, Simplicity<sup>™†</sup>, Traxos<sup>®†</sup>, Varro<sup>®†</sup>

**STORAGE**

- Store away from food, feedstuff, fertilizer, seeds, insecticides, fungicides or other pesticides or herbicides intended to be used on crops sensitive to **Clobber**. Store in heated storage; if product is frozen, bring to room temperature and agitate before use.

**GRAZING AND HARVEST**

- Allow 7 days after application before cutting hay or harvesting forage.
- Withdraw meat animals from treated fields at least 3 days before slaughter.
- Harvest mature crops 60 days after application.

<sup>†</sup>For pea rotation, rainfall from June 1 to August 31 in the year of application must be more than 140 mm (5.5 inches) and annual rainfall must be more than 175 mm (6.9 inches).

**MIXING INSTRUCTIONS**

1. Fill the spray tank 1/2 full of water, begin agitation and continue through mixing and application process.
2. If required add the correct amount of any dry formulation product.
3. If required add the correct amount of grass control product.
4. Add the required amount of **Clobber<sup>®</sup> M**.
5. Add any required surfactants, complete filling of sprayer and apply.
6. If application is stopped prior to completion, re-suspend spray solution by full agitation prior to commencing spraying again.

**UNDERSTANDING PERFORMANCE**

- Optimum results will be achieved between 12° C and 24° C in warm moist growing conditions when weeds are actively growing.
- Canada thistle control will be reduced if weeds are larger than 10 cm and have already budded.
- When weeds are stressed due to drought, flooding or prolonged hot or cool temperatures (less than 8° C or more than 27° C), control can be reduced or delayed since weeds are not actively growing. Weed escapes may occur under prolonged stress conditions or low fertility.
- Do not make applications to weeds stressed longer than 20 days due to lack of moisture as unsatisfactory control can result.
- Very dry soil conditions following application can result in a risk of injury to field peas, beans, clover, alfalfa or other legumes grown in rotation. **Do not seed lentils on treated fields for at least 2 years.**

Always read and follow all label precautions and directions.

\*When applying tank mix combinations, always follow all label requirements for each product used in the tank mix. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

<sup>†</sup>Supported by AgraCity. For a complete list of tank mix options, go to [AgraCity.com/Solutions](http://AgraCity.com/Solutions).

Ace<sup>®</sup>, Aurora<sup>®</sup>, Clobber<sup>®</sup>, Himalaya<sup>®</sup>, Hellcat<sup>®</sup>, Independence<sup>®</sup>, and MPower<sup>®</sup> are trademarks of AgraCity or its affiliates. All other products are trademarks of their respective holders.

# DEATHSTAR™ HERBICIDE

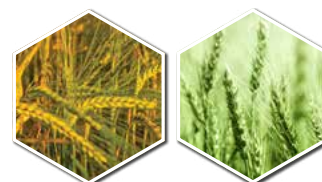
## AGRACITY EXCLUSIVE PRODUCT Florasulam + Fluroxypyr Herbicide

### WHY USE DEATHSTAR?

- Highest registered rate of Fluroxypyr and Florasulam
- Powerful control of cleavers, kochia, chickweed, and wild buckwheat
- Controls or suppresses 34+ broadleaf weeds with additional MCPA Ester 600
- Superior control of Group 2 resistant cleavers
- Use in all soil zones
- 3 different actives with systemic mode of action
- Wide window of application
- Excellent crop safety
- Great tank mix option with Himalaya®
- No re-cropping restrictions
- Superior broad-spectrum broadleaf weed control at the best price
- Great performance on larger weeds
- Excellent crop safety

## FOR USE ON

- Spring wheat, durum wheat, barley



## WEEDS

### CONTROLLED\*

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>• Annual sunflowers</li> <li>• Ball mustard</li> <li>• Burdock</li> <li>• Chickweed</li> <li>• Cleavers (1-4 whorl)</li> <li>• Cocklebur</li> <li>• Common ragweed</li> <li>• Cow cockle</li> <li>• Flixweed (spring rosettes only)</li> <li>• Hemp nettle</li> <li>• Kochia</li> <li>• Lamb's-quarters</li> <li>• Prickly lettuce</li> </ul> | <ul style="list-style-type: none"> <li>• Red root pigweed</li> <li>• Round leaved mallow</li> <li>• Russian pigweed</li> <li>• Shepherd's purse</li> <li>• Smartweed</li> <li>• Stinkweed</li> <li>• Vetch</li> <li>• Volunteer canola</li> <li>• Volunteer flax<sup>1</sup></li> <li>• Wild buckwheat</li> <li>• Wild mustard</li> <li>• Wild radish</li> </ul> |
|--|--|

### SUPPRESSED

- Annual sow thistle
- Canada thistle
- Dandelions (seedlings and over-wintered rosettes <15cm)
- Narrow-leaved Hawk's beard
- Perennial sow thistle<sup>2</sup>
- Plantain (top growth only)
- Stork's bill (1-8 leaf)

<sup>1</sup> Up to 12 cm

<sup>2</sup> Applications made at advanced leaf stages will reduce product effectiveness

\*With the addition of 300 ml/ac MCPA Ester 600



**DEATHSTAR** HERBICIDE

AGRICITY EXCLUSIVE PRODUCT

**REQUIRED SURFACTANT**

- None required

**ACTIVE INGREDIENTS**

- Florasulam 50 g/L suspension concentrate (SC)
- Fluroxypyr 180 g/L emulsifiable concentrate (EC)

**PACKAGE SIZE**

- **Case:** 80 acres
- **Bulk:** 720 acres

**WHEN TO APPLY**

- **Crop stage:** 3 leaf - just before flag leaf
- **Weed stage:** 1-4 leaf

**WATER VOLUME**

- 10 US gallons/acre (40 L/acre)

**RAINFAST PERIOD**

- 2 hours

**RE-CROPPING OPTIONS**

- Grow all major crops the year after application.

**TANK MIX OPTIONS\***

- **Ace<sup>®</sup> II, Himalaya<sup>®</sup>, Axial<sup>®</sup>, Simplicity<sup>™</sup>**

**STORAGE**

- Store in dry heated area.
- If product is frozen, bring to room temperature and agitate before use.

**GRAZING AND HARVEST**

- Allow 7 days after application before cutting hay or harvesting forage.
- Mature crop may be harvested 60 days after application.

**MIXING INSTRUCTIONS**

1. Fill the spray tank 1/2 full of water, start sprayer agitation and continue throughout mixing and application process.
2. Add any dry formulation tank mix partners (such as **Himalaya** or **Simplicity<sup>™</sup>**) and dissolve.
3. Add the required amount of grass weed control tank mix partner.
4. Add the required amount of **Battlefront<sup>™</sup>**.
5. If required add the correct amount of liquid grass weed control herbicide.
6. Add the required amount of **Foxy<sup>®</sup>**.
7. Add any required surfactants, complete filling of sprayer and apply.
8. If application is stopped prior to completion, re-suspend spray solution by full agitation prior to commencing spraying again.

**UNDERSTANDING PERFORMANCE**

- Best results will occur with temperatures between 12°C and 24°C in warm moist conditions when weeds are smaller and actively growing.
- Use higher water volumes with heavier weed pressure, larger weeds and thicker crop canopy.
- Typical symptoms (twisting of the stems) of dying weeds may not be visible for several days to 2 weeks after application, depending on growing conditions. Control of weeds may take 3-4 weeks.
- Degree of control and duration of effect are dependent on weed sensitivity, weed size, crop competition, growing condition at and following treatment, and spray coverage.
- When weeds are stressed due to drought, flooding or prolonged hot or cool temperatures (less than 8 °C or more than 27° C), control can be reduced or delayed since weeds are not actively growing.
- Do not make applications to weeds stressed longer than 20 days due to lack of moisture as unsatisfactory control can result.

Always read and follow all label precautions and directions.

\*When applying tank mix combinations, always follow all label requirements for each product used in the tank mix. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

†Supported by AgraCity. For a complete list of tank mix options, go to [AgraCity.com/Solutions](http://AgraCity.com/Solutions).

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# DENALI® CM HERBICIDE

## AGRACITY EXCLUSIVE PRODUCT

### Flucarbazone + Fluroxypyr + Clopyralid + MCPA Ester Herbicide

#### WHY USE DENALI CM?

- AgraCity Exclusive Product - one pass product designed for superior control of tough grass and broadleaf weeds, including wild oats, cleavers, and thistle
- Use in all soil zones
- Systemic multiple modes of action for dependable control and resistance management
- Early window of application for highest yields
- Control of Group 1 resistant wild oats, green foxtail, and Group 2 resistant cleavers and kochia
- Excellent crop safety
- Grow most major crops the year after application
- Excellent one pass product for control of annual grass and tough to kill broadleaf weeds at an affordable price

## FOR USE ON

- Spring wheat, durum wheat

## WEEDS

### CONTROLLED

- |  |                                 |
|--|---------------------------------|
| • Burdock  | • Ragweed                       |
| • Canada thistle (low infestations) <sup>2</sup> | • Redroot pigweed               |
| • Cleavers <sup>3</sup> (1-4 whorls)             | • Shepherd's-purse              |
| • Cocklebur                                      | • Stinkweed                     |
| • Flixweed                                       | • Sunflower (annual)            |
| • Green foxtail <sup>1</sup>                     | • Vetch                         |
| • Green smartweed                                | • Volunteer flax (1-12 cm)      |
| • Kochia <sup>3</sup>                            | • Volunteer canola <sup>5</sup> |
| • Lamb's-quarters                                | • Volunteer tame oats           |
| • Plantain <sup>4</sup>                          | • Wild mustard                  |
| • Prickly lettuce                                | • Wild oats <sup>1</sup>        |
|  | • Wild radish                   |

<sup>1</sup> Including Group 1 resistant biotypes

<sup>2</sup> Season long control, with some regrowth in the fall

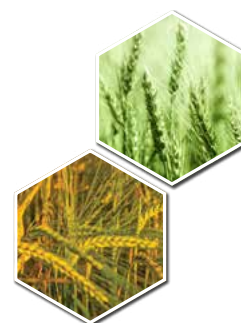
<sup>3</sup> Including Group 2 resistant biotypes

<sup>4</sup> Top growth control only

<sup>5</sup> Not including Clearfield® varieties

### SUPPRESSED

- Stork's bill





**DENALI CM** HERBICIDE

AGRICITY EXCLUSIVE PRODUCT

**REQUIRED SURFACTANT**

- Agral® 90 at 2.5 L per 1,000 L of water

**ACTIVE INGREDIENTS**

- Flucarbazone 66% water dispersible granule (WDG)
- Fluroxypyr 180 g/L emulsifiable concentrate (EC)
- Clopyralid 50 g a.e./L + MCPA Ester 280 ga.e./L emulsifiable concentrate (EC)

**PACKAGE SIZE**

- **Case:** 20 acres
- **Bulk:** 960 acres

**WHEN TO APPLY**

- **Crop stage:** 1-4 leaf, 2 tillers
- **Weed stage:**  
**Grass weeds:** 1-4 leaf, 2 tillers  
**Broadleaf weeds:** 3-6 leaf

**WATER VOLUME**

- 5-10 US gallons/acre (20-40 L/acre)

**RAINFAST PERIOD**

- 4 hours

**RE-CROPPING OPTIONS**

- See chart below

**SUPPORTED TANK MIXES\***

- None

**STORAGE**

- Store in a dry heated area. If product is frozen, bring to room temperature and agitate before use

**GRAZING AND HARVEST**

- Do not graze treated fields or use green crop for feed. Wheat grain or straw from harvested treated fields may be fed to livestock
- Mature crop may be harvested 80 days after application

**RE-CROPPING OPTIONS BY SOIL ZONE**

Grey Wooded	Black	Dark Brown	Brown
Spring wheat	Spring wheat	Spring wheat	Spring wheat
Barley	Barley	Barley	
Canola	Canola	Canola	
Field peas*	Field peas*	Field peas*	
	Field bean*	Flax	
	Flax	Durum wheat	
	Durum wheat		

**MIXING INSTRUCTIONS**

1. Ensure spray tank is clean. In-line strainers and nozzle screens should be clean and 50-mesh or coarser.
2. Fill the spray tank 1/2 full of water, begin agitation and continue throughout mixing and application process.
3. Add the required rate of **Himalaya®** and continue agitation until product is fully dissolved.
4. Add the required amount of **Foxy®**, then **Clobber® M**
5. Add the required amount of surfactant, complete filling tank with balance of water, and apply.
6. If application is stopped prior to completion, re-suspend spray solution by full agitation prior to commencing spraying again.

**UNDERSTANDING PERFORMANCE**

- Optimal control occurs when applied between 12°C and 24° C in warm moist growing conditions when weeds are small. Reduced activity will occur at temperatures less than 8° C or more than 27° C.
- Use higher water volumes for thicker crop canopy or heavier weed pressure.
- For best control of thistle, plants must be in the rosette to pre-bud stage. Thistles that are not emerged or are already in the bud stage will not be controlled.
- Typical symptoms (discoloration) of dying weeds may not be noticeable for several day to 2 weeks after application, depending upon growing conditions. Control of weeds may take 3-4 weeks.
- Frost 3 days before or after application may reduce weed control and crop tolerance.
- Weed control may be reduced during stress conditions or if weed populations are heavy or too far advanced.
- Wheat exposed to water-logged or saturated soils, or temperature extremes such as heat or freezing weather, or drought, low fertility or plant disease at application time could show unacceptable injury symptoms. Weed control also may be reduced by these same conditions.

Field peas and beans can be successfully grown the year after application of Denali CM provided the following three criteria are met:

1. Soil pH must be below 7.5
2. Organic matter content must be above 4%
3. Precipitation in the year of application must be equal to or above the 10-year average (minimum 100 mm within 60 days of application), total rainfall from June 1 to August 31 must be more than 140 mm (5.5 inches) and annual rainfall must be more than 175 mm. (6.9 inches).

Always read and follow all label precautions and directions.

\*When applying tank mix combinations, always follow all label requirements for each product used in the tank mix. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

†Supported by AgraCity. For a complete list of tank mix options, go to [AgraCity.com/Solutions](https://AgraCity.com/Solutions).

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# FOXXY® CM HERBICIDE

**SAME ACTIVES AS PRESTIGE™**

**Fluroxypyr + Clopyralid + MCPA Ester Herbicide**

## WHY USE FOXXY CM?

- Same actives as Prestige
- Outstanding control of cleavers, Canada thistle and kochia (including Group 2 resistant),
- Fantastic tank mix partner with **Aurora®**, **Hellcat®** or **Himalaya™**
- Controls over 30 broadleaf weeds at the high rate
- Use in all soil zones
- Systemic mode of action for dependable control
- Outstanding performance on later stage weeds
- Wide window of application
- Excellent crop safety
- Numerous tank mix options
- Proven in-crop control of thistle and hard-to-kill broadleaf weeds at an affordable price

## FOR USE ON

- Spring wheat, durum wheat, barley

## WEEDS

### CONTROLLED

#### Low Rate

- Burdock
- Canada thistle<sup>1</sup> (low infestations)
- Cleavers<sup>2</sup> (1-4 whorls)
- Cocklebur
- Field horsetail<sup>3</sup>
- Flixweed<sup>4</sup> (2-4 leaf)
- Kochia<sup>2</sup>
- Lamb's-quarters
- Plantain<sup>3</sup>
- Prickly lettuce
- Ragweed
- Shepherd's-purse<sup>4</sup>
- Stinkweed<sup>4</sup>
- Sunflower (annual and volunteer)
- Vetch
- Volunteer flax (1-12 cm)
- Wild mustard
- Wild radish

#### High Rate (includes weeds controlled at the low rate)

- Canada thistle<sup>1</sup> (medium-high infestations)
- Common groundsel
- Dandelion<sup>4</sup>
- Hemp-nettle (2-6 leaf)
- Redroot pigweed
- Round-leaved mallow (1-6 leaf)
- Russian pigweed
- Scentless chamomile (2-4 leaf)
- Smartweed
- Sow-thistle (annual)
- Sow thistle<sup>3</sup> (perennial)
- Stork's-bill (1-8 leaf)
- Tartary buckwheat
- Volunteer canola<sup>5</sup>
- Wild buckwheat

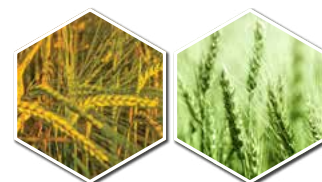
<sup>1</sup> Season-long control with some regrowth in the fall (top growth control)

<sup>2</sup> Including Group 2 resistant biotypes

<sup>3</sup> Top growth control

<sup>4</sup> Spring rosettes only

<sup>5</sup> Including all herbicide tolerant varieties



### SUPPRESSED LOW RATE

- Stork's-bill (1-8 leaf)

### SUPPRESSED HIGH RATE

- Chickweed<sup>2</sup> (up to 8 cm)



**FOXXY CM** HERBICIDE

SAME ACTIVES AS PRESTIGE

**REQUIRED ADJUVANT**

- None required

**ACTIVE INGREDIENTS**

- Fluroxypyr 180 g/L emulsifiable concentrate (EC)
- Clopyralid 50 g a.e./L + MCPA 280 g a.i./L emulsifiable concentrate (EC)

**PACKAGE SIZES**

- **Case:** 20-27 acres.
- **Bulk:** 711-960 acres

**WHEN TO APPLY**

- **Crop stage:** 3 leaf–flag leaf
- **Weed stage:** 1–6 leaf stage (high rate) or 2–4 leaf stage (low rate)

**WATER VOLUME**

- 5-10 US gallons/acre (20–40 L/acre)

**RAINFAST PERIOD**

- 4 hours

**RE-CROPPING OPTIONS**

- 1 year after application: wheat barley, canola, rye, sugar beets, flax, mustard, oats, peas<sup>†</sup> or summerfallow.

**TANK MIX OPTIONS\***

- **Ace<sup>®†</sup> II, Aurora<sup>®†</sup>, HellCat<sup>®†</sup>, Himalaya<sup>®†</sup>, Axial<sup>®†</sup>, Simplicity<sup>™\*\*\*†</sup>, Traxos<sup>®†</sup>, Varro<sup>®†</sup>**

**STORAGE**

- Do not freeze. If product is frozen, bring to room temperature and agitate before use.

**GRAZING AND HARVEST**

- Livestock may graze treated areas 7 days after application
- Withdraw meat animals from treated areas at least 3 days before slaughter
- Allow 7 days after application before cutting hay or harvesting forage
- Mature crops may be harvested 60 days after application.

<sup>†</sup>For pea rotation, rainfall from June 1 to August 31 in the year of application must be more than 140 mm (5.5 inches) and annual rainfall must be more than 175 mm (6.9 inches).

<sup>\*\*</sup>For Simplicity tank mix use low rate Foxy<sup>®</sup> CM only.

**MIXING INSTRUCTIONS**

1. Fill the spray tank 1/2 full of clean water, begin agitation and continue throughout mixing and application process.
2. If tank mixing, add the required amount of grassy weed control tank mix partner.
3. Add the required amount of **Foxy<sup>®</sup>** herbicide.
4. Add the required amount of **Clobber<sup>®</sup> M**
5. Add surfactant if required, then complete filling tank with balance of water needed, and apply.
6. If application is stopped prior to completion, re-suspend spray solution by full agitation prior to commencing spraying again.

**UNDERSTANDING PERFORMANCE**

- Best results will occur with temperatures between 12°C and 24°C in warm moist conditions when weeds are small and actively growing.
- Thistle control will be best if they are rosette to pre-bud stage. Thistles that are not emerged or are already in the bud stage will not be controlled.
- Use higher rate and higher water volumes with heavier weed pressure, larger weeds and thicker crop canopy.
- Typical symptoms (twisting of the stems) of dying weeds may not be visible for several days to 2 weeks after application, depending on growing conditions. Control of weeds may take 3-4 weeks.
- When weeds are stressed due to drought, flooding or prolonged hot or cool temperatures (less than 8 °C or greater than 27°C), control can be reduced or delayed since weeds are not actively growing.
- Weed escapes may occur under prolonged stress conditions or low fertility. Do not make applications to weeds stressed longer than 20 days due to lack of moisture as unsatisfactory control can result.

Always read and follow all label precautions and directions.

<sup>\*</sup>When applying tank mix combinations, always follow all label requirements for each product used in the tank mix. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

<sup>†</sup>Supported by AgraCity. For a complete list of tank mix options, go to [AgraCity.com/Solutions](http://AgraCity.com/Solutions).

Ace<sup>®</sup>, Aurora<sup>®</sup>, Clobber<sup>®</sup>, Foxy<sup>®</sup>, Hellcat<sup>®</sup>, and Himalaya<sup>®</sup> are trademarks of AgraCity or its affiliates. All other products are trademarks of their respective holders.

# FOXXY® CRX HERBICIDE

## AGRACITY EXCLUSIVE PRODUCT

## Fluroxypyr + Thifensulfuron + Tribenuron + Clopyralid Herbicide

### WHY USE FOXXY CRX?

- AgraCity Exclusive Product - contains 3 active ingredients for great control of cleavers, kochia (including Group 2 resistant), thistle (seasonal control) and narrow-leaved hawk's-beard
- Controls or suppresses 28 broadleaf weeds
- Excellent in-crop control of Canada thistle
- Use in all soil zones
- Two systemic modes of action for resistance management
- Wide window of application
- Excellent crop safety at all application stages
- Great tank mix option with **Aurora®** or **Himalaya®**
- Grow most crops, including peas, the year after application – see re-cropping restrictions section
- Strong control of tough broadleaf weeds and Canada thistle at an affordable price

## FOR USE ON

- Spring wheat, barley

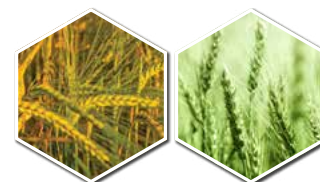
## WEEDS

### CONTROLLED

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>• Ball mustard</li> <li>• Canada thistle<sup>1</sup></li> <li>• Chickweed<sup>2</sup></li> <li>• Cleavers<sup>3</sup> (1-6 whorl)</li> <li>• Common groundsel</li> <li>• Corn spurry</li> <li>• Cow cockle</li> <li>• Flixweed</li> <li>• Green smartweed</li> <li>• Hemp-nettle</li> <li>• Kochia<sup>3</sup> (up to 8 leaf)</li> <li>• Lady's-thumb</li> </ul> | <ul style="list-style-type: none"> <li>• Lamb's quarters</li> <li>• Narrow-leaved hawk's-beard</li> <li>• Redroot pigweed</li> <li>• Russian thistle</li> <li>• Shepherd's purse</li> <li>• Stinkweed</li> <li>• Volunteer canola<sup>4</sup></li> <li>• Volunteer flax (1-12 cm)</li> <li>• Volunteer sunflower</li> <li>• Wild buckwheat<sup>5</sup></li> <li>• Wild mustard</li> </ul> |
|---|---|

### SUPPRESSED

- Round-leaved mallow<sup>6</sup>
- Scentless chamomile
- Sow thistle<sup>1</sup>
- Stork's-bill (2-6 leaf)
- Toadflax<sup>7</sup>



<sup>1</sup> Seasonal control. For best results, apply before bud stage when thistles are no taller than 15 cm.

<sup>2</sup> Apply when chickweed is small and actively growing, but before canopy prevents thorough coverage.

<sup>3</sup> Including Group 2 resistant biotypes

<sup>4</sup> Addition of MPCA is required to control Clearfield® canola, see label for recommended rates.

<sup>5</sup> Cotyledon to 5-leaf. Under stress conditions control will be reduced and large plants may regrow after treatment.

<sup>6</sup> Plants will be stunted but populations may not be reduced.

<sup>7</sup> Apply when toadflax is no taller than 15 cm in height. A control program for this weed includes both frequent tillage and chemical application.



**FOXXY CRX** HERBICIDE

AGRICITY EXCLUSIVE PRODUCT

**REQUIRED SURFACTANT**

- Not required if mixed with a wild oat herbicide
- If used alone, Agral® 90 at 2 L per 1,000 L water

**ACTIVE INGREDIENTS**

- Fluroxypyr 180 g/L emulsifiable concentrate (EC)
- Thifensulfuron methyl 50% + tribenuron methyl 25% wettable granules (WG)
- Clopyralid 360 g/L liquid

**PACKAGE SIZES**

- **Case:** 40 acres
- **Bulk:** 960 acres

**WHEN TO APPLY**

- **Crop stage:** 3 leaf – flag leaf
- **Weed stage:** less than 10 cm in height or diameter

**WATER VOLUME**

- 5–10 US gallons/acre (20–40 L/acre)

**RAINFAST PERIOD**

- 4 hours

**RE-CROPPING OPTIONS**

- 1 year after application: wheat barley, canola, rye, sugar beets, flax, mustard, oats, peas<sup>†</sup> or summerfallow.
- Crops not listed may be grown 2 years after application

**TANK MIX OPTIONS\***

- **Ace®† II, Aurora®†, Hellcat®†, Himalaya®†**, MCPA 600 Ester @190 ml/acre, Axial®†, Simplicity™†, Traxos®†

**STORAGE**

- Do not freeze. If product is frozen, bring to room temperature and agitate before use.

**GRAZING AND HARVEST**

- Graze livestock 7 days after application
- Withdraw meat animals from treated areas at least 3 days before slaughter
- Cut hay or harvest forage 7 days after application
- Harvest mature crops 60 days after application

<sup>†</sup>For pea rotation, rainfall from June 1 to August 31 in the year of application must be more than 140 mm (5.5. inches) and annual rainfall must be more than 175 mm (6.9 inches).

**MIXING INSTRUCTIONS**

1. Fill the spray tank 1/2 full of water, start sprayer agitation and continue throughout mixing and application process.
2. Add the required amount of **MPower RX**.
3. Add the required amount of grass weed control tank mix partner.
4. Add the required amount of **Foxy**, followed by **Clobber®**.
5. If required add the correct amount of MCPA Ester.
6. Add any required surfactants, complete filling of sprayer and apply.
7. If application is stopped prior to completion, re-suspend spray solution by full agitation prior to commencing spraying again.

**UNDERSTANDING PERFORMANCE**

- Best results will occur with temperatures between 12° C and 24° C in warm moist conditions when weeds are small and actively growing.
- Ensure thorough spray coverage of target weeds and use higher water volumes with dense crop canopy and/or large weeds.
- Typical symptoms (discoloration, twisting of stems) of dying weeds may not be visible for several days to 2 weeks after application, depending on growing conditions. Control of weeds may take 3–4 weeks.
- Degree of control and duration of effect are dependent on weed sensitivity, weed size, crop competition, growing conditions at and following treatment, and spray coverage.
- When weeds are stressed due to drought, flooding or prolonged hot or cool temperatures (less than 8 °C or more than 27° C), control can be reduced or delayed since weeds are not actively growing. Do not make applications to weeds stressed longer than 20 days due to lack of moisture as unsatisfactory control can result.
- Application to crops that are stressed by severe weather conditions, frost, low fertility, water-logged soil (soil at or near field capacity), disease or insect damage may result in crop injury. Drought, disease, or insect damage following application may also result in crop injury.
- Product will degrade if left in the sprayer for more than 24 hours after mixing.

Always read and follow all label precautions and directions.

\*When applying tank mix combinations, always follow all label requirements for each product used in the tank mix. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

<sup>†</sup>Supported by AgraCity. For a complete list of tank mix options, go to [AgraCity.com/Solutions](http://AgraCity.com/Solutions).

Ace®, Aurora®, Clobber®, Foxy®, Hellcat®, Himalaya®, and MPower® are trademarks of AgraCity or its affiliates. All other products are trademarks of their respective holders.

# FOXXY® KO HERBICIDE

**AGRACITY EXCLUSIVE PRODUCT**  
**Fluroxypyr + 2,4-D Ester Herbicide**

## WHY USE FOXXY KO?

- Powerful control of cleavers, kochia, round leaved mallow and volunteer flax
- Excellent control of Group 2 resistant cleavers
- Use in all soil zones
- 2 Different active ingredients with systemic modes of action
- Wide window of application
- Excellent crop safety
- Great tank mix partner with **Aurora®** or **Himalaya®**
- No re-cropping restrictions

## FOR USE ON

- Spring wheat, durum wheat, barley

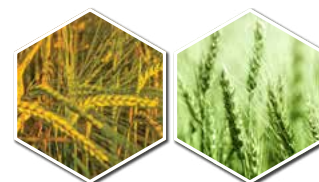
## WEEDS

### CONTROLLED

- Cleavers (1-4 whorl)
- Kochia
- Round leaved mallow
- Volunteer flax

### SUPPRESSED

- Chickweed
- Hemp nettle
- Stork's-bill
- Wild buckwheat





**FOXXY KO** HERBICIDE

AGRICITY EXCLUSIVE PRODUCT

**REQUIRED SURFACTANT**

- None required when used alone

**ACTIVE INGREDIENTS**

- Fluroxypyr 180 g/L Emulsifiable Concentrate
- 2,4-D Ester 660 gm/L Emulsifiable Concentrate

**PACKAGE SIZE**

- **Case:** 40 acres

**WHEN TO APPLY**

- **Crop stage:** 4th leaf to early flag leaf
- **Weed stage:** 1 - 6 leaf

**WATER VOLUME**

- 5 - 10 US gallons/acre (20 - 40 L/acre)

**RAINFAST PERIOD**

- 2 hours

**RE-CROPPING OPTIONS**

- Grow all major crops the year after application.

**TANK MIX OPTIONS\***

- **Aurora<sup>®</sup>†, Hellcat<sup>®</sup>†, Himalaya<sup>®</sup>†, Simplicity™, Traxos<sup>®</sup>†**, additional 2,4-D Ester 660 at 2 oz or 80 ml/acre

**STORAGE**

- Do not freeze; if product is frozen, bring to room temp and agitate before use.

**GRAZING AND HARVEST**

- Livestock may graze treated area 7 days after application
- Withdraw meat animals from treated areas at least 3 days before slaughter
- Allow 7 days after application before cutting hay or harvesting forage.
- Mature crop may be harvested 60 days after application.

**MIXING INSTRUCTIONS**

1. Fill the spray tank 1/2 full of water, begin agitation, and continue throughout mixing and application process.
2. Add required rate of any dry formulation tank mix partners and dissolve.
3. Add the required rate of grass weed control tank mix partner and mix thoroughly.
4. Add the required rate of **Foxy** then **MPower<sup>®</sup> 2,4-D Ester**.
5. Add any required surfactant, complete filling of sprayer and apply.
6. If application is stopped prior to completion, re-suspend spray solution by full agitation prior to commencing spraying again.

**UNDERSTANDING PERFORMANCE**

- Best results will occur with temperatures between 12°C and 24°C in warm moist growing conditions when weeds are smaller and actively growing.
- Use higher water volumes with heavier weed pressure, larger weeds and thicker crop canopy.
- Typical symptoms (twisting of the stems) of dying weeds may not be noticeable for several days to 2 weeks after application, depending upon growing conditions. Control of weeds may take 3-4 weeks.
- When weeds are stressed due to drought, flooding or prolonged hot or cool temperatures (less than 8 degrees or more than 27°C), control and be reduced or delayed since weeds are not actively growing.
- Weeds escapes may occur under prolonged stress conditions or low fertility. Do not make applications to weeds stressed longer than 20 days due to lack of moisture as unsatisfactory control can result.

Always read and follow all label precautions and directions.

\*When applying tank mix combinations, always follow all label requirements for each product used in the tank mix. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

†Supported by AgraCity. For a complete list of tank mix options, go to [AgraCity.com/Solutions](http://AgraCity.com/Solutions).

Aurora<sup>®</sup>, Foxy<sup>®</sup>, Hellcat<sup>®</sup>, Himalaya<sup>®</sup>, and MPower<sup>®</sup> are trademarks of AgraCity or its affiliates. All other products are trademarks of their respective holders.

# FOXXY® M HERBICIDE

**SAME ACTIVES AS TROPHY®**  
**Fluroxypyr + MCPA Ester Herbicide**

## WHY USE FOXXY M?

- Same actives as Trophy
- Strong control of cleavers and kochia (including Group 2 resistant), and vetch
- Great tank mix partner with **Aurora®** or **Himalaya™**
- Controls or suppresses 22 broadleaf weeds with additional MCPA
- Use in all soil zones
- Systemic mode of action for dependable control
- Wide window of application
- Excellent crop safety
- Numerous tank mix options
- Excellent control of hard-to-kill broadleaf weeds at an affordable price

## FOR USE ON

- Spring wheat, durum wheat, barley

## WEEDS

### CONTROLLED

- |                                       |                                   |
|---------------------------------------|-----------------------------------|
| • Annual sunflower                    | • Prickly lettuce                 |
| • Burdock (prior to 4 leaf)           | • Ragweeds                        |
| • Cleavers (1-4 whorls) <sup>1</sup>  | • Russian pigweed <sup>2</sup>    |
| • Cocklebur                           | • Shepherd's purse <sup>2</sup>   |
| • Flixweed <sup>2</sup>               | • Stinkweed                       |
| • Hemp-nettle (2-6 leaf) <sup>2</sup> | • Vetch                           |
| • Kochia (2-8 leaf) <sup>1</sup>      | • Volunteer canola <sup>2,3</sup> |
| • Lamb's-quarters                     | • Volunteer flax (1-12 cm)        |
| • Mustards (except dog and tansy)     | • Wild radish                     |
| • Plantain                            |                                   |

<sup>1</sup> Including Group 2 resistant biotypes

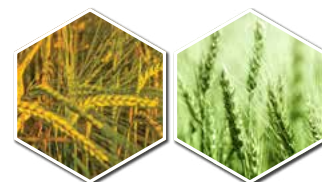
<sup>2</sup> Controlled with an additional 122 ml/ac MCPA 600 Ester

<sup>3</sup> Including all HT varieties

<sup>4</sup> Suppressed with an additional 122 ml/ac MCPA 600 Ester

### SUPPRESSED

- Green smartweed<sup>4</sup>
- Stork's-bill (1-8 leaf)
- Wild buckwheat<sup>4</sup>



**FOXXY M** HERBICIDE

SAME ACTIVES AS TROPHY

**REQUIRED ADJUVANT**

- None required

**ACTIVE INGREDIENTS**

- Fluroxypyr 180 g/L emulsifiable concentrate (EC)
- MCPA Ester 600 g/L EC

**PACKAGE SIZES**

- **Case:** 40 acres

**WHEN TO APPLY**

- **Crop stage:** 3 leaf – flag leaf
- **Weed stage:** 2-4 leaf

**WATER VOLUME**

- 10 US gallons/acre (40 L/acre)

**RAINFAST PERIOD**

- 4 hours

**RE-CROPPING OPTIONS**

- Grow all major crops the year after application

**TANK MIX OPTIONS\***

- **Ace<sup>®†</sup> II, Aurora<sup>®</sup>, Himalaya<sup>®†</sup>, Hellcat<sup>®</sup>, Axial<sup>®†</sup>, Simplicity<sup>™†</sup>, Traxos<sup>®†</sup>**

**STORAGE**

- Store in a dry heated area. If product is frozen, bring to room temperature and agitate before use.

**GRAZING AND HARVEST**

- Livestock may graze treated areas 7 days after application
- Withdraw meat animals from treated areas at least 3 days before slaughter
- Allow 7 days after application before cutting hay or harvesting forage
- Harvest mature crops 60 days after application

**MIXING INSTRUCTIONS**

1. Fill the spray tank 1/2 full of clean water, begin agitation and continue throughout mixing and application process.
2. If tank mixing, add the required amount of grassy weed control tank mix partner.
3. Add the required amount of **Foxxxy** herbicide, followed by MCPA Ester.
4. Add surfactant if required, then complete filling tank with balance of water needed, and apply.
5. If application is stopped prior to completion, re-suspend spray solution by full agitation prior to commencing spraying again.

**UNDERSTANDING PERFORMANCE**

- Best results will occur with temperatures between 12° C and 24° C in warm moist conditions when weeds are small and actively growing.
- Typical symptoms (twisting of the stems) of dying weeds may not be visible for several days to 2 weeks after application, depending on growing conditions. Control of weeds may take up to 6 weeks.
- When weeds are stressed due to drought, flooding or prolonged hot or cool temperatures (less than 8 °C or more than 27° C), control can be reduced or delayed since weeds are not actively growing.
- Frost shortly before or after application may reduce weed control.
- Weed escapes may occur under prolonged stress conditions or low fertility. Do not make applications to weeds stressed longer than 20 days due to lack of moisture as unsatisfactory control can result.

Always read and follow all label precautions and directions.

\*When applying tank mix combinations, always follow all label requirements for each product used in the tank mix. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

†Supported by AgraCity. For a complete list of tank mix options, go to [AgraCity.com/Solutions](http://AgraCity.com/Solutions).

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# FOXXY® MR HERBICIDE

## EXCLUSIVE AGRACITY PRODUCT

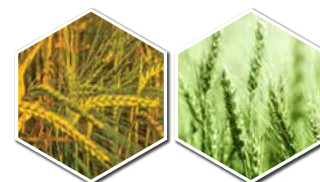
## Fluroxypyr + Thifensulfuron + Tribenuron + MCPA Ester Herbicide

### WHY USE FOXXY MR?

- AgraCity Exclusive Product - contains 3 active ingredients, designed for proven control of cleavers, kochia (including Group 2 resistant), and narrow-leaved hawk's-beard
- Great tank mix partner with Aurora® or Himalaya®
- Controls or suppresses 36 broadleaf weeds
- Use in all soil zones
- Systemic mode of action for dependable control
- Wide window of application
- Excellent crop safety
- Numerous tank mix options
- Excellent control of hard-to-kill broadleaf weeds at an affordable price

## FOR USE ON

- Spring wheat, durum wheat, barley



## WEEDS

### CONTROLLED

- |   |  |   |
|---|--|---|
| <ul style="list-style-type: none"> <li>• Annual smartweed</li> <li>• Annual sunflower</li> <li>• Ball mustard</li> <li>• Burdock (prior to 4 leaf)</li> <li>• Chickweed<sup>1</sup></li> <li>• Cleavers (1-4 whorls)<sup>2</sup></li> <li>• Corn spurry</li> <li>• Cocklebur</li> <li>• Common groundsel</li> <li>• Cow cockle</li> <li>• Flixweed</li> </ul> | <ul style="list-style-type: none"> <li>• Hemp-nettle<sup>3</sup></li> <li>• Kochia (2-8 leaf)<sup>2</sup></li> <li>• Lamb's-quarters</li> <li>• Mustards (except dog and tansy)</li> <li>• Narrow-leaved hawk's-beard</li> <li>• Plantain</li> <li>• Prickly lettuce</li> <li>• Ragweeds</li> <li>• Redroot pigweed</li> </ul> | <ul style="list-style-type: none"> <li>• Russian thistle</li> <li>• Shepherd's purse</li> <li>• Stinkweed</li> <li>• Vetch</li> <li>• Volunteer canola<sup>4</sup></li> <li>• Volunteer flax (1-12 cm)</li> <li>• Volunteer sunflower</li> <li>• Wild buckwheat<sup>5</sup></li> <li>• Wild mustard</li> <li>• Wild radish</li> </ul> |
|---|--|---|

### SUPPRESSED

- Canada thistle<sup>6</sup>
- Round-leaved mallow<sup>7</sup>
- Scentless chamomile
- Sow thistle
- Stork's-bill (1-8 leaf)
- Toadflax<sup>8</sup>

<sup>1</sup> Apply when chickweed is small (1-6 leaf) and actively growing, but before crop canopy prevents thorough herbicide coverage of weeds. Chickweed emerging after application will not be controlled. Biotypes resistant to Group 2 herbicides will not be controlled.

<sup>2</sup> Including Group 2 resistant biotypes.

<sup>3</sup> Not including Group 2 resistant biotypes.

<sup>4</sup> Clearfield® volunteers are controlled with an additional 132 ml/ac MCPA 600 Ester.

<sup>5</sup> Apply to actively growing wild buckwheat in the cotyledon to 3 leaf stage. Under environmental stress, such as dry weather, control may be reduced. Large plants may re-grow after treatment.

<sup>6</sup> Apply when the majority of thistles have emerged and are actively growing. For best top growth control, apply before bud stage when thistles are no larger than 15 cm in height and before crop canopy prevents thorough coverage of weeds. A single application will effectively inhibit the ability of emerged thistles to compete with the crop. Later emerging thistles will not be suppressed.

<sup>7</sup> Apply to actively growing round leaved mallow from the 2-6 leaf stage. Foxy MR will keep mallow stunted, but may not reduce overall populations.

<sup>8</sup> Apply to toadflax that is no larger than 15cm in height. A control program for this weed includes both frequent tillage and chemical application.



**FOXXY MR HERBICIDE****EXCLUSIVE AGRACITY PRODUCT****REQUIRED ADJUVANT**

- If applied with a wild oat herbicide, only the adjuvant required with that herbicide is needed
- If applied alone, Agra<sup>®</sup> 90 or Ag-Surf<sup>®</sup> at 2L per 1,000L water

**ACTIVE INGREDIENTS**

- Fluroxypyr 180 g/L emulsifiable concentrate (EC)
- MCPA Ester 600 g/L EC
- Thifensulfuron methyl 50% + tribenuron methyl 25% wettable granules (WG)

**PACKAGE SIZES**

- **Case:** 40 acres
- **Bulk:** 960 acres

**WHEN TO APPLY**

- **Crop stage:** 3 leaf – flag leaf
- **Weed stage:** 2–4 leaf

**WATER VOLUME**

- 10 US gallons/acre (40 L/acre)

**RAINFAST PERIOD**

- 4 hours

**RE-CROPPING OPTIONS**

- Grow all major crops the year after application

**TANK MIX OPTIONS\***

- **Ace<sup>®†</sup> II, Aurora<sup>®†</sup>, HellCat<sup>®†</sup>, Himalaya<sup>®†</sup>, Axial<sup>®†</sup>, Simplicity<sup>™†</sup>, Traxos<sup>®†</sup>**

**STORAGE**

- Store in a dry heated area. If product is frozen, bring to room temperature and agitate before use.

**GRAZING AND HARVEST**

- Livestock may graze treated areas 7 days after application
- Withdraw meat animals from treated areas at least 3 days before slaughter
- Allow 7 days after application before cutting hay or harvesting forage
- Harvest mature crops 60 days after application

**MIXING INSTRUCTIONS**

1. Fill the spray tank 1/2 full of clean water, begin agitation and continue throughout mixing and application process.
2. Add the required amount of **MPower<sup>®</sup> R** and dissolve well.
3. If tank mixing with any other granular product, add and dissolve well.
4. Add the required amount of **Foxy** herbicide, followed by **MCPA Ester**.
5. If tank mixing, add the required amount of liquid grassy weed control tank mix partner
6. Add surfactant if required, then complete filling tank with balance of water needed, and apply.
7. If application is stopped prior to completion, re-suspend spray solution by full agitation prior to commencing spraying again.

**UNDERSTANDING PERFORMANCE**

- Best results will occur with temperatures between 12° C and 24° C in warm moist conditions when weeds are small and actively growing.
- Typical symptoms (twisting of the stems) of dying weeds may not be visible for several days to 2 weeks after application, depending on growing conditions. Control of weeds may take up to 6 weeks.
- When weeds are stressed due to drought, flooding or prolonged hot or cool temperatures (less than 8 °C or more than 27° C), control can be reduced or delayed since weeds are not actively growing.
- Frost shortly before or after application may reduce weed control.
- Do not apply this product (or any product containing **MPower R**) more than once per year
- Weed escapes may occur under prolonged stress conditions or low fertility. Do not make applications to weeds stressed longer than 20 days due to lack of moisture as unsatisfactory control can result.

Always read and follow all label precautions and directions.

\*When applying tank mix combinations, always follow all label requirements for each product used in the tank mix. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

†Supported by AgraCity. For a complete list of tank mix options, go to [AgraCity.com/Resources](http://AgraCity.com/Resources)

Ace<sup>®</sup>, Aurora<sup>®</sup>, Foxy<sup>®</sup>, MPower<sup>®</sup>, HellCat<sup>®</sup>, and Himalaya<sup>®</sup> are trademarks of AgraCity or its affiliates. All other products are trademarks of their respective holders.

# FOXXY® PRO HERBICIDE

**SAME ACTIVES AS OCTTAIN™**  
**Fluroxypyr + 2,4-D Ester Herbicide**

## WHY USE FOXXY PRO?

- Same actives as OcTTain
- Powerful control of kochia (including Group 2 and 9 resistant biotypes) and wild buckwheat.
- Controls or suppresses over 40 broadleaf weeds with additional 2,4-D added
- Use in brown and dark brown soil zones
- Systemic mode of action for dependable control and resistance management
- Great performance on larger weeds
- Wide window of application
- Excellent crop safety
- Great tank mix option with **Aurora®** or **Himalaya®**
- No-recropping restrictions
- Powerful control of the toughest broadleaf weeds at an affordable price

## FOR USE ON

- Spring wheat, durum wheat, barley

## WEEDS

### CONTROLLED

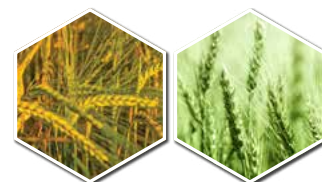
- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>• Annual sunflower</li> <li>• Bluebur</li> <li>• Blue lettuce<sup>1,4</sup></li> <li>• Burdock</li> <li>• Canola (all HT types)</li> <li>• Cleavers<sup>3</sup></li> <li>• Cocklebur</li> <li>• Dandelion<sup>2,4</sup></li> <li>• Docks<sup>4</sup></li> <li>• Dog mustard<sup>4</sup></li> <li>• Field bindweed<sup>1,4</sup></li> <li>• Field horsetail<sup>1</sup></li> <li>• Field peppergrass<sup>4</sup></li> <li>• Flixweed</li> <li>• Goat's-beard</li> <li>• Gumweed<sup>4</sup></li> <li>• Hairy galinsoga<sup>4</sup></li> <li>• Hedge bindweed<sup>4</sup></li> <li>• Hoary cress<sup>1</sup></li> <li>• Kochia<sup>3</sup> (up to 15 cm)</li> <li>• Lady's-thumb<sup>4</sup></li> </ul> | <ul style="list-style-type: none"> <li>• Lamb's-quarters</li> <li>• Leafy spurge<sup>1,4</sup></li> <li>• Oak-leaved goosefoot<sup>4</sup></li> <li>• Plantain</li> <li>• Prickly lettuce</li> <li>• Ragweed</li> <li>• Redroot pigweed<sup>4</sup></li> <li>• Round-leaved mallow<sup>4</sup> (1-6 leaf)</li> <li>• Russian thistle<sup>4</sup></li> <li>• Shepherd's purse</li> <li>• Smartweed<sup>4</sup></li> <li>• Stork's-bill<sup>4</sup> (1-8 leaf)</li> <li>• Sweet clover</li> <li>• Stinkweed</li> <li>• Tansy mustard<sup>4</sup></li> <li>• Tartary buckwheat<sup>4</sup></li> <li>• Vetch</li> <li>• Volunteer flax (1-12 cm)</li> <li>• Wild buckwheat (1-4 leaf)</li> <li>• Wild mustard</li> <li>• Wild radish</li> </ul> |
|--|---|

<sup>1</sup> Top growth control only

<sup>2</sup> Spring rosettes

<sup>3</sup> Including Group 2 resistant biotypes

<sup>4</sup> Requires the addition of 2 oz/acre (80 mL) of 2,4-D Ester 660 g/L



### SUPPRESSED

- Annual sow thistle<sup>4</sup>
- Canada thistle<sup>1,4</sup>
- Common chickweed<sup>3,4</sup>
- Hemp-nettle<sup>4</sup>
- Perennial sow thistle<sup>1,4</sup>





**FOXXY PRO** HERBICIDE

SAME ACTIVES AS OCTTAIN

**REQUIRED SURFACTANT**

- None required when used alone

**ACTIVE INGREDIENTS**

- Fluroxypyr 180 g/L emulsifiable concentrate (EC)
- 2,4-D Ester 660 g/L emulsifiable concentrate (EC)

**PACKAGES SIZES**

- **Case:** 40 acres
- **Bulk:** 960 acres

**WHEN TO APPLY**

- **Crop stage:** 4 leaf - early flag leaf
- **Weed stage:** 1-6 leaf

**WATER VOLUME**

- **Ground:** 5- 10 US gallons/acre (20 – 40 L/acre)

**RAINFAST PERIOD**

- 2 hours

**RE-CROPPING OPTIONS**

- Grow all major crops the year after application.

**TANK MIX OPTIONS\***

- **Aurora<sup>†</sup>, Hellcat<sup>®†</sup>, Himalaya<sup>®†</sup>, Simplicity<sup>™†</sup>, Traxos<sup>®†</sup>, additional 2,4-D Ester 660 g/L at 2 oz/acre (80 mL/ac)<sup>†\*\*</sup>, Varro<sup>®†</sup>**

**STORAGE**

- Do not freeze. If product is frozen, bring to room temperature and agitate before use.

**GRAZING AND HARVEST**

- Livestock may graze treated areas 7 days after application
- Withdraw meat animals from treated areas at least 3 days before slaughter
- Allow 7 days after application before cutting hay or harvesting forage
- Mature crops may be harvested 60 days after application.

<sup>™</sup> Spring or durum wheat only

<sup>\*\*</sup>Do not tank mix with Simplicity if adding additional 2,4-D Ester

**MIXING INSTRUCTIONS**

1. Fill the spray tank 1/2 full of water, start sprayer agitation and continue throughout mixing and application process.
2. Add any dry formulation tank mix partners.
3. Add the required amount of grass weed control tank mix partner.
4. Add the required amount of **Foxy<sup>®</sup>** then **Mpower<sup>®</sup> 2,4-D Ester**.
5. Add any required surfactants, complete filling of sprayer and apply.
6. If application is stopped prior to completion, re-suspend spray solution by full agitation prior to commencing spraying again.

**UNDERSTANDING PERFORMANCE**

- Best results will occur with temperatures between 12° C and 24° C in warm, moist conditions when weeds are smaller and actively growing.
- Use higher water volumes with heavier weed pressure, larger weeds and thicker crop canopy.
- Typical symptoms (twisting of the stems) of dying weeds may not be visible for several days to 2 weeks after application, depending on growing conditions. Control of weeds may take 3-4 weeks.
- When weeds are stressed due to drought, flooding or prolonged hot or cool temperatures (less than 8 °C or more than 27° C), control can be reduced or delayed since weeds are not actively growing.
- Weed escapes may occur under prolonged stress conditions or low fertility. Do not make applications to weeds stressed longer than 20 days due to lack of moisture as unsatisfactory control can result.

Always read and follow all label precautions and directions.

\*When applying tank mix combinations, always follow all label requirements for each product used in the tank mix. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

<sup>†</sup>Supported by AgraCity.

Aurora<sup>®</sup>, Foxy<sup>®</sup>, Himalaya<sup>®</sup>, Hellcat<sup>®</sup> and Mpower<sup>®</sup> are trademarks of AgraCity or its affiliates. All other products are trademarks of their respective holders.

# FOXXY® PRO RX HERBICIDE

## AGRACITY EXCLUSIVE PRODUCT

### Fluroxypyr + Thifensulfuron + Tribenuron + 2,4-D Ester Herbicide

#### WHY USE FOXXY PRO RX?

- AgraCity Exclusive Product - contains 4 active ingredients for powerful control of kochia, Russian thistle and narrow-leaved hawk's-beard
- Controls or suppresses 47 broadleaf weeds
- Use in brown or dark brown soil zones
- Multiple systemic modes of action for resistance management
- Wide window of application
- Excellent crop safety
- Great tank mix option with **Aurora®**
- No re-cropping restrictions
- Dependable broad-spectrum control of broadleaf weeds at an affordable price

## FOR USE ON

- Spring wheat, durum wheat, barley

## WEEDS

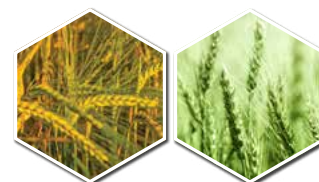
### CONTROLLED

- Annual sow-thistle
- Annual smartweed
- Ball mustard
- Bluebur<sup>1</sup>
- Burdock<sup>1</sup>
- Chickweed<sup>2,3</sup>
- Cleavers
- Cocklebur
- Common ragweed
- Common groundsel
- Corn spurry
- Cow cockle
- Daisy fleabane
- False flax
- False ragweed
- Flixweed
- Goat's-beard
- Giant ragweed
- Hemp-nettle<sup>3</sup>
- Kochia
- Lamb's quarters
- Mustards (except dog and tansy)
- Narrow-leaved hawk's-beard
- Plantain
- Prickly lettuce
- Redroot pigweed
- Russian pigweed
- Russian thistle

- Shepherd's purse
- Stinging nettle
- Stinkweed
- Sweet clover (seedling)
- Tartary buckwheat
- Thyme-leaved spurge
- Volunteer canola<sup>4</sup>
- Volunteer flax (1-12cm)
- Volunteer sunflower
- Wild buckwheat<sup>5</sup>
- Wild mustard
- Wild radish
- Wild sunflower

### SUPPRESSED

- Canada thistle<sup>6</sup>
- Round-leaved mallow (2-6 leaf)<sup>7</sup>
- Scentless chamomile
- Sow thistle<sup>6</sup>
- Stork's-bill (2-6 leaf)
- Toadflax<sup>8</sup>



<sup>1</sup> Up to 4 leaf stage

<sup>2</sup> Apply when chickweed is small (1-6 leaf) and actively growing, but before canopy prevents thorough coverage. Chickweed emerging after application will not be controlled

<sup>3</sup> Not including Group 2 resistant biotypes

<sup>4</sup> Including all HT biotypes

<sup>5</sup> Apply to actively growing wild buckwheat at the cotyledon to 3 leaf stage. Large plants may regrow after treatment.

Top growth control only. For best results, apply before bud stage when thistles are no larger than 15 cm tall.

<sup>7</sup> Apply to actively growing mallow, plants will be stunted only

<sup>8</sup> Apply when plants are less than 15 cm in height. A control program includes chemical application and frequent tillage.



**FOXXY PRO RX** HERBICIDE

AGRICITY EXCLUSIVE PRODUCT

**REQUIRED SURFACTANT**

- Not required if mixed with a wild oat herbicide
- If used alone, Agraval® 90 or Ag-Surf® at 2 L per 1,000 L water

**ACTIVE INGREDIENTS**

- Fluroxypyr 180 g/L emulsifiable concentrate (EC)
- Thifensulfuron methyl 50% + tribenuron methyl 25% wettable granule (WG)
- 2,4-D Ester 660 g/L emulsifiable concentrate (EC)

**PACKAGE SIZES**

- **Case:** 40 acres
- **Bulk:** 960 acres

**WHEN TO APPLY**

- **Crop stage:** 4 leaf–flag leaf
- **Weed stage:** Less than 10 cm in height or diameter

**WATER VOLUME**

- 5–10 US gallons/acre (20–40 L/acre)

**RAINFEST PERIOD**

- 4 hours

**RE-CROPPING OPTIONS**

- Grow all major crops the year after application.

**TANK MIX OPTIONS\***

- Aurora®†, Hellcat®†, Himalaya®†, Simplicity™† Traxos®†

**STORAGE**

- Do not freeze. If product is frozen, bring to room temperature and agitate before use.

**GRAZING AND HARVEST**

- Livestock may graze treated areas 7 days after application
- Withdraw meat animals from treated areas at least 3 days before slaughter
- Allow 7 days after application before cutting hay or harvesting forage
- Mature crops may be harvested 60 days after application.

**MIXING INSTRUCTIONS**

1. Fill the spray tank 1/2 full of water, start sprayer agitation and continue throughout mixing and application process.
2. Add the required amount of **MPower® RX** and fully dissolve.
3. Add the required amount of grass weed control tank mix partner.
4. Add the required amount of **Foxyy**, then **MPower 2,4-D Ester**.
5. Add any required surfactants, complete filling of sprayer and apply.
6. If application is stopped prior to completion, re-suspend spray solution by full agitation prior to commencing spraying again.

**UNDERSTANDING PERFORMANCE**

- Best results will occur with temperatures between 12°C and 24°C in warm moist conditions when weeds are small and actively growing.
- Ensure thorough spray coverage of target weeds and use higher water volumes with dense crop canopy and/or large weeds.
- Typical symptoms (discoloration, twisting of stems) of dying weeds may not be visible for several days to 2 weeks after application, depending on growing conditions. Control of weeds may take 3–4 weeks.
- Degree of control and duration of effect are dependent on weed sensitivity, weed size, crop competition, growing conditions at and following treatment, and spray coverage.
- When weeds are stressed due to drought, flooding or prolonged hot or cool temperatures (less than 8 °C or greater than 27°C), control can be reduced or delayed since weeds are not actively growing. Do not make applications to weeds stressed longer than 20 days due to lack of moisture as poor control can result.
- Application to crops that are stressed by severe weather conditions, frost, low fertility, water-logged soil (soil at or near field capacity), disease or insect damage may result in crop injury. Drought, disease, or insect damage following application may also result in crop injury.
- Product will degrade if left in the sprayer for more than 24 hours after mixing.

Always read and follow all label precautions and directions.

\*When applying tank mix combinations, always follow all label requirements for each product used in the tank mix. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

†Supported by AgraCity. For a complete list of tank mix options, go to [AgraCity.com/Solutions](http://AgraCity.com/Solutions).

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# FOXXY® R HERBICIDE

**SAME ACTIVES AS BARRICADE®**

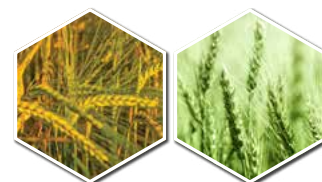
**Fluroxypyr + Thifensulfuron + Tribenuron Herbicide**

## WHY USE FOXXY R?

- Same actives as Barricade
- Proven control of cleavers, hemp-nettle, and wild buckwheat
- Control of Group 2 resistant cleavers
- Controls or suppresses 12 broadleaf weeds
- Use in all soil zones
- Two systemic modes of action for resistance management
- Wide window of application
- Excellent crop safety at all application stages
- Great tank mix option with Aurora® or Himalaya®
- No re-cropping restrictions
- Proven broad-spectrum control of tough broadleaf weeds at an affordable price

## FOR USE ON

- Spring wheat, durum wheat, barley



## WEEDS

### CONTROLLED

- Cleavers<sup>1</sup> (1-4 whorl)
- Cow cockle
- Green smartweed
- Hemp-nettle
- Lady's-thumb
- Lamb's quarters
- Redroot pigweed
- Stinkweed
- Volunteer canola<sup>2</sup>
- Wild buckwheat
- Wild mustard

### SUPPRESSED

- Canada thistle<sup>3</sup>

<sup>1</sup> Including Group 2 resistant biotypes

<sup>2</sup> Not including Clearfield® canola

<sup>3</sup> Top growth control only. For best results, apply before bud stage when thistles are no taller than 15 cm.



**FOXXY R HERBICIDE**

SAME ACTIVES AS BARRICADE

**REQUIRED SURFACTANT**

- Not required if mixed with a wild oat herbicide
- If used alone, Agral® 90 at 2 L per 1,000 L water

**ACTIVE INGREDIENTS**

- Fluroxypyr 180 g/L emulsifiable concentrate (EC)
- Thifensulfuron methyl 25% + tribenuron methyl 25% Soluble granules (SG)

**PACKAGE SIZES**

- **Case:** 80 acres
- **Bulk:** 1,440 acres

**WHEN TO APPLY**

- **Crop stage:** 2 leaf – flag leaf
- **Weed stage:** Less than 10 cm in height or diameter

**WATER VOLUME**

- 5–10 US gallons/acre (20–40 L/acre)

**RAINFAST PERIOD**

- 4 hours

**RE-CROPPING OPTIONS**

- Grow all major crops the year after application.

**TANK MIX OPTIONS\***

- **Ace®†, Aurora®†, HellCat®†, Himalaya®†**, MCPA Ester 600 @190 mL/acre, Axial®†, Simplicity™†, Traxos®†

**STORAGE**

- Do not freeze. If product is frozen, bring to room temperature and agitate before use.

**GRAZING AND HARVEST**

- Livestock may graze treated areas 7 days after application
- Withdraw meat animals from treated areas at least 3 days before slaughter
- Allow 7 days after application before cutting hay or harvesting forage
- Mature crops may be harvested 60 days after application.

**MIXING INSTRUCTIONS**

1. Fill the spray tank 1/2 full of water, start sprayer agitation and continue throughout mixing and application process.
2. Add the required amount of **Rumour®**.
3. Add the required amount of grass weed control tank mix partner.
4. Add the required amount of **Foxyy**.
5. If desired add the required amount of MCPA 600 Ester.
6. Add any required surfactants, complete filling of sprayer and apply.
7. If application is stopped prior to completion, re-suspend spray solution by full agitation prior to commencing spraying again.

**UNDERSTANDING PERFORMANCE**

- Best results will occur with temperatures between 12° C and 24° C in warm moist conditions when weeds are small and actively growing.
- Ensure thorough spray coverage of target weeds and use higher water volumes with dense crop canopy and/or large weeds.
- Typical symptoms (discoloration, twisting of stems) of dying weeds may not be visible for several days to 2 weeks after application, depending on growing conditions. Control of weeds may take 3 - 4 weeks.
- Degree of control and duration of effect are dependent on weed sensitivity, weed size, crop competition, growing conditions at and following treatment, and spray coverage.
- When weeds are stressed due to drought, flooding or prolonged hot or cool temperatures (less than 8 °C or greater than 27°C), control can be reduced or delayed since weeds are not actively growing. Do not make applications to weeds stressed longer than 20 days due to lack of moisture as unsatisfactory control can result.
- Application to crops that are stressed by severe weather conditions, frost, low fertility, water-logged soil (soil at or near field capacity), disease or insect damage may result in crop injury. Drought, disease, or insect damage following application may also result in crop injury.
- Product will degrade if left in the sprayer for more than 24 hours after mixing.

Always read and follow all label precautions and directions.

\*When applying tank mix combinations, always follow all label requirements for each product used in the tank mix. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

†Supported by AgraCity. For a complete list of tank mix options, go to [AgraCity.com/Solutions](http://AgraCity.com/Solutions).

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# FOXXY® RCK HERBICIDE

## AGRACITY EXCLUSIVE PRODUCT

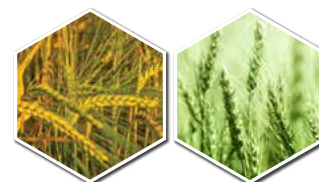
### Fluroxypyr + Thifensulfuron + Tribenuron Herbicide

#### WHY USE FOXXY RCK?

- AgraCity Exclusive Product - contains a higher rate of active ingredient for outstanding control of kochia (including Group 2 resistant), hemp-nettle, lamb's-quarters and wild buckwheat
- Controls or suppresses 15 broadleaf weeds
- Use in all soil zones
- Two systemic modes of action for resistance management
- Wide window of application
- Excellent crop safety at all application stages
- Great tank mix option with Aurora® or Himalaya®
- No re-cropping restrictions
- Proven broad-spectrum control of tough broadleaf weeds at an affordable price

## FOR USE ON

- Spring wheat, durum wheat, barley



## WEEDS

### CONTROLLED

- Cleavers<sup>1</sup> (1-4 whorl)
- Cow cockle
- Green smartweed
- Hemp-nettle
- Kochia<sup>1</sup> (up to 8 leaf)
- Lady's-thumb
- Lamb's quarters
- Redroot pigweed
- Stinkweed
- Volunteer canola<sup>2</sup>
- Volunteer flax (1-12 cm)
- Wild buckwheat
- Wild mustard

### SUPPRESSED

- Canada thistle<sup>3</sup>
- Stork's-bill (1-8 leaf)

<sup>1</sup> Including Group 2 resistant biotypes

<sup>2</sup> Not including Clearfield® canola

<sup>3</sup> Top growth control only. For best results, apply before bud stage when thistles are no taller than 15 cm.





**FOXXY RCK** HERBICIDE**AGRICITY EXCLUSIVE PRODUCT****REQUIRED SURFACTANT**

- Not required if mixed with a wild oat herbicide
- If used alone, Agral® 90 at 2 L per 1,000 L water

**ACTIVE INGREDIENTS**

- Fluroxypyr 180 g/L emulsifiable concentrate (EC)
- Thifensulfuron methyl 25% + tribenuron methyl 25% Soluble granules (SG)

**PACKAGE SIZES**

- **Case:** 80 acres
- **Bulk:** 960 acres

**WHEN TO APPLY**

- **Crop stage:** 2 leaf–flag leaf
- **Weed stage:** less than 10 cm in height or diameter

**WATER VOLUME**

- 5–10 US gallons/acre (20–40 L/acre)

**RAINFEST PERIOD**

- 4 hours

**RE-CROPPING OPTIONS**

- Grow all major crops the year after application.

**TANK MIX OPTIONS\***

- **Ace®†II, Aurora®†, Hellcat®†, Himalaya®†, MCPA 600 Ester** @190 ml/acre†, **Axial®†, Simplicity™†, Traxos®†, Varro®†**

**STORAGE**

- Do not freeze. If product is frozen, bring to room temperature and agitate before use.

**GRAZING AND HARVEST**

- Livestock may graze treated areas 7 days after application
- Withdraw meat animals from treated areas at least 3 days before slaughter
- Allow 7 days after application before cutting hay or harvesting forage
- Mature crops may be harvested 60 days after application.

**MIXING INSTRUCTIONS**

1. Fill the spray tank 1/2 full of water, start sprayer agitation and continue throughout mixing and application process.
2. Add the required amount of **Rumour™**.
3. Add the required amount of grass weed control tank mix partner.
4. Add the required amount of **Foxyy**.
5. If desired add the required amount of MCPA 600 Ester.
6. Add any required surfactants, complete filling of sprayer and apply.
7. If application is stopped prior to completion, re-suspend spray solution by full agitation prior to commencing spraying again.

**UNDERSTANDING PERFORMANCE**

- Best results will occur with temperatures between 12° C and 24° C in warm moist conditions when weeds are small and actively growing.
- Ensure thorough spray coverage of target weeds and use higher water volumes with dense crop canopy and/or large weeds.
- Typical symptoms (discoloration, twisting of stems) of dying weeds may not be visible for several days to 2 weeks after application, depending on growing conditions. Control of weeds may take 3–4 weeks.
- Degree of control and duration of effect are dependent on weed sensitivity, weed size, crop competition, growing conditions at and following treatment, and spray coverage.
- When weeds are stressed due to drought, flooding or prolonged hot or cool temperatures (less than 8 °C or greater than 27° C), control can be reduced or delayed since weeds are not actively growing. Do not make applications to weeds stressed longer than 20 days due to lack of moisture as unsatisfactory control can result.
- Application to crops that are stressed by severe weather conditions, frost, low fertility, water-logged soil (soil at or near field capacity), disease or insect damage may result in crop injury. Drought, disease, or insect damage following application may also result in crop injury.
- Product will degrade if left in the sprayer for more than 24 hours after mixing.

Always read and follow all label precautions and directions.

\*When applying tank mix combinations, always follow all label requirements for each product used in the tank mix. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

†Supported by AgraCity. For a complete list of tank mix options, go to [AgraCity.com/Solutions](http://AgraCity.com/Solutions).

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GROUP  
1

# HELLCAT<sup>®</sup> HERBICIDE

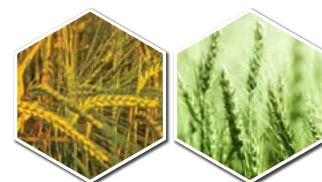
**SAME ACTIVE AS PUMA<sup>®</sup>**  
**Fenoxaprop Herbicide**

## WHY USE HELLCAT?

- Same active as Puma
- Control of wild oats, green foxtail, and barnyard grass
- Great control of green foxtail
- Systemic mode of action
- Use in all soil zones
- Wide window of application
- Numerous tank mix options
- No re-cropping restrictions
- Bulk package options
- Proven grass weed control at an affordable price

## FOR USE ON

- Spring wheat, durum wheat
- Barley (must be tank mixed)



## WEEDS

### CONTROLLED

- Wild oats
- Green foxtail
- Barnyard grass



**HELLCAT** HERBICIDE

SAME ACTIVE AS PUMA

**REQUIRED SURFACTANT**

- None required

**ACTIVE INGREDIENT**

- Fenoxaprop 120 g/L emulsifiable concentrate (EC)

**PACKAGE SIZES:**

- **Case:** 80 acres
- **Bulk:** 320 or 1,600 acres

**WHEN TO APPLY**

- **Crop stage:**  
**Spring and Durum wheat:** 1-6 leaf on the main stem plus 3 tillers  
**Barley:** 1-5 leaf on the main stem plus 2 tillers
- **Weed stage:** 1-6 leaf stage up to emergence of 3rd tiller

**WATER VOLUME**

- **Spring wheat, Durum wheat:** 5-10 US gallons/acre (20 – 40 L/acre)
- **Barley:** 10 US gallons/acre (40 L/acre)

**RAINFAST PERIOD**

- 1 hour

**RE-CROPPING OPTIONS**

- Grow all major crops the year after application

**TANK MIX OPTIONS\***

- Canuck<sup>®†</sup>, Clobber<sup>®†</sup>, Clobber<sup>®</sup> M<sup>†</sup>, Foxy<sup>®</sup> Canuck<sup>®†</sup>, Foxy<sup>®</sup> CM<sup>†</sup>, Foxy<sup>®</sup> CRX<sup>†</sup>, Foxy<sup>®</sup> KO<sup>†</sup>, Foxy<sup>®</sup> M<sup>†</sup>, Foxy<sup>®</sup> Pro<sup>†</sup>, Foxy<sup>®</sup> Pro RX<sup>†</sup>, Foxy<sup>®</sup> R<sup>†</sup>, Foxy<sup>®</sup> RCK<sup>†</sup>, MPower<sup>®</sup> RX, MCPA or 2,4-D Ester, Infinity<sup>®†</sup>, Infinity FX<sup>†</sup>, Pixxaro<sup>™†</sup>.

**GRAZING AND HARVEST**

- Graze the treated crop or cut for hay 25 days after application
- Pre-harvest Interval = 65 days

<sup>†</sup>Spring or durum wheat only

**MIXING INSTRUCTIONS**

1. Fill the spray tank 1/2 full of water, start sprayer agitation and continue throughout mixing and spraying process.
2. Add required rate of any tank mix partners.
3. Slowly add the required rate of **HellCat** and mix thoroughly.
4. Add the required rate of any surfactant if needed.
5. Add the remainder of the water and apply. Spray mixture should not be left in the sprayer overnight.
6. If application is stopped prior to completion, re-suspend spray solution by full agitation prior to commencing spraying again.

**UNDERSTANDING PERFORMANCE**

- Optimum control occurs at temperatures between 12° C and 24° C in warm moist growing conditions.
- Use higher water volumes with a dense crop canopy or larger weeds.
- Typical symptoms (discoloration) may not be noticeable for 1-2 weeks depending on growing conditions and weed susceptibility. Control of weeds may take 3-4 weeks.
- For best results apply to actively growing weeds. Weed control can be reduced or delayed under stress conditions such as drought, heat, insufficient fertility, flooding, insect or disease damage, or prolonged cool temperatures.
- Do not apply during stress conditions, past the recommended leaf stage or overlap during application as the risk of crop injury will increase.
- Do not use **Hellcat** alone in barley. Always tank mix with a supported broadleaf tank mix partner. If applied alone, temporary crop injury can be expected, especially if the crop is under stress.

Always read and follow all label precautions and directions.

<sup>\*</sup>When applying tank mix combinations, always follow all label requirements for each product used in the tank mix. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

<sup>†</sup>Supported by AgraCity. For a complete list of tank mix options, go to [AgraCity.com/Solutions](http://AgraCity.com/Solutions).

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# HIMALAYA<sup>®</sup> HERBICIDE

**SAME ACTIVE AS EVEREST<sup>®</sup>**  
**Flucarbazone Herbicide**

## WHY USE HIMALAYA?

- Same active as Everest
- Proven control of wild oats and grass weeds
- Use in all soil zones
- Systemic mode of action
- Control of Group 1 resistant wild oats
- Early window of application for highest yield potential
- Excellent crop safety
- Great tank mix partner with Foxy<sup>®</sup> or Battlefront<sup>®</sup> based products
- Grow most major crops the year after application
- Low rate, easy to use
- Proven wild oat and grass weed control value at an affordable price

## FOR USE ON

- Spring wheat, durum wheat



## WEEDS

### CONTROLLED

- Green foxtail<sup>1,2</sup>
- Volunteer tame oats
- Wild oats<sup>1,2</sup>
- Green smartweed
- Redroot pigweed
- Shepherd's purse
- Stinkweed
- Volunteer canola<sup>2</sup>
- Wild mustard

<sup>1</sup> Including Group 1 resistant biotypes

<sup>2</sup> Group 2 tolerant biotypes will not be controlled



# HIMALAYA HERBICIDE

SAME ACTIVE AS EVEREST

## REQUIRED SURFACTANT

- Agral® 90 at 2.5 L per 1,000 L of water

## ACTIVE INGREDIENT

- Flucarbazone 66% water dispersible granule (WDG)

## PACKAGE SIZE

- Case: 40 acres

## WHEN TO APPLY

- **Crop stage:** 1–4 leaf, 2 tillers
- **Weed stage:**  
**Grass weeds:** 1–4 leaf, 2 tillers  
**Broadleaf weeds:** 2–6 leaf

## WATER VOLUME

- 5–10 US gallons/acre (20–40 L/acre)

## RAINFAST PERIOD

- 1 hour

## RE-CROPPING OPTION BY SOIL ZONE

GREY WOODED	BLACK	DARK BROWN	BROWN
Spring wheat	Spring wheat	Spring wheat	Spring wheat
Barley	Barley	Barley	
Canola	Canola	Canola	
Field peas*	Field peas*	Field peas*	
	Field beans	Flax	
	Flax	Durum wheat	
	Durum wheat		

\* Field peas can be successfully grown the year after application of Himalaya provided the following three criteria are met:

1. Soil pH must be below 7.5
2. Organic matter content must be above 4%
3. Precipitation must be equal to or above the 10 year average (minimum 100 mm) within 60 days of application in year of application, or fields can be summerfallowed.

## TANK MIX OPTIONS\*

- Ammo® DR, Battlestar®†, Canuck®†, Clobber® M†, Deathstar™†, Foxy® Canuck†, Foxy® CM†, Foxy® CRX†, Foxy® KO†, Foxy® M†, Foxy® MR, Foxy® Pro†, Foxy® Pro RX†, Foxy® R†, Foxy® RCK†, 2,4-D Ester, MCPA Ester or Amine, MPower® Pro†, MPower® RX†, Exhilarate™†, Pixxaro™†, Target®†

## STORAGE

- Product can be frozen

## GRAZING AND HARVEST

- Do not graze treated fields or use green crop for feed. Wheat grain or straw from harvested treated fields may be fed to livestock.
- Mature crop may be harvested 80 days after application.

## MIXING INSTRUCTIONS

1. Ensure spray tank is clean. In-line strainers and nozzle screens should be clean and 50-mesh or coarser.
2. Fill the spray tank 1/2 full of water, begin agitation and continue throughout mixing and application process.
3. Add the required amount of **Himalaya** and agitate until product is fully dissolved.
4. Add the required amount of broadleaf herbicide.
5. Add the required amount of surfactant, complete filling tank with balance of water, and apply.
6. If application is stopped prior to completion, fully agitate the solution prior to resuming spraying.

## UNDERSTANDING PERFORMANCE

- Optimal control occurs when applied between 12°C and 24°C in warm moist growing conditions when weeds are small. Reduced activity will occur at temperatures less than 8°C or more than 27°C.
- Use higher water volumes for thicker crop canopy or heavier weed pressure.
- Typical symptoms (discoloration) of dying weeds may not be noticeable for several days to 2 weeks of application, depending upon growing conditions. Control of weeds may take 3–4 weeks.
- Frost 3 days before or after application may reduce weed control and crop tolerance.
- Weed control may be reduced during stress conditions or if weed populations are heavy or too far advanced.
- Wheat exposed to water-logged or saturated soils, or temperature extremes such as heat or freezing weather, or drought, low fertility or plant disease at application time could show unacceptable injury symptoms. Weed control also may be reduced by these same conditions.

Always read and follow all label precautions and directions.

\*When applying tank mix combinations, always follow all label requirements for each product used in the tank mix. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

†Supported by AgraCity.

Ammo®, Battlestar®, Canuck®, Clobber®, Deathstar™, Foxy®, MPower® and Himalaya® are trademarks of AgraCity or its affiliates. All other products are trademarks of their respective holders.

# independence<sup>®</sup> HERBICIDE

**SAME ACTIVE AS SELECT<sup>®</sup> AND CENTURION<sup>®</sup>  
Clethodim Herbicide**

## WHY USE INDEPENDENCE?

- Same active as Select and Centurion
- Outstanding wild oat and grass weed control
- Controls or suppresses 11 grass weeds
- Use in all soil zones
- Use on canola, pulse crops, flax and numerous other crops
- Systemic mode of action for dependable control
- Very low use rates for ease of use
- Wide window of application
- Excellent crop safety
- Numerous tank mix options
- No re-cropping restrictions
- Excellent wild oat and grass weed control at an affordable price

## FOR USE ON

- Canola, flax, field peas, chickpeas, lentils, dry beans, soybeans, mustard, seedling alfalfa, sunflowers, potatoes, dry onions
- See product label for complete list of registered crops

## WEEDS

### CONTROLLED

#### 50 ml/acre rate:

2-4 leaf stage:

- Green foxtail
- Yellow foxtail
- Wild oats
- Volunteer cereals (wheat, barley, oats).

2-6 leaf stage:

- Barnyard grass
- Witchgrass
- Fall panicum
- Proso millet
- Volunteer corn
- Volunteer canary grass.

#### 76 ml/acre rate:

(including weeds controlled at 50 ml/acre rate):

- Persian darnel
- Crabgrass (smooth and large)
- Witchgrass
- Fall panicum
- Barnyard grass
- Quackgrass (suppression)

#### 152 ml/acre rate:

- Quackgrass\*\* (2-6 leaf stage).



\*\*For adequate control of quackgrass, use a minimum spray volume of 10 US gallons/acre (40L/acre). Established overwintered plants will not be controlled.





## REQUIRED SURFACTANT

- **Empire® II or Tonto®** at 5-10 L per 1,000 L water

## ACTIVE INGREDIENT

- Clethodim: 240 g/L emulsifiable concentrate

## PACKAGE SIZE (AT 76 ML/ACRE RATE)

- **Case:** 80 acres
- **Bulk:** 960 acres

## WHEN TO APPLY

- **Crop stage:** Canola, flax, field peas, chickpeas, lentils, dry beans, soybeans, mustard, seedling alfalfa, sunflowers, potatoes, dry onions: All stages of growth. **Chickpeas:** Up to 9 nodes
- **Weed stage:** 2-6 leaf unless otherwise indicated

## WATER VOLUME

- **Ground:** 5-20 US gallons/acre (20-40 L/acre)
- **Aerial:** 3-6 US gallons/acre (12-24 L/acre)
- See label for crop specific application guidelines.

## RAINFAST PERIOD

- 1 hour

## RE-CROPPING OPTIONS

- Grow all major crops the year after application

## TANK MIX OPTIONS\*

- **Boa®†, Boa® Pro†, Canuck®†, Clobber®, Clobber® M†, Kamikaze®, MCPA Ester, Ninja®†, Samurai®†**
- Please consult the product label or crop protection guides for complete list of tank mixes, application rates and use guidelines.

## STORAGE

- May be stored at any temperature: shake well before using.

## GRAZING AND HARVEST

- Do not graze treated fields or harvest for forage or hay for 60 days after application for annual crops or 30 days for seedling alfalfa
- See table below for pre-harvest intervals by crop

### PRE-HARVEST AND GRAZING INTERVALS IN DAYS

CROP	PHI	CROP	PHI	CROP	PHI
Chickpeas	60	Lentils	60	Seedling alfalfa	30
Canola	60	Field peas	75	Soybeans	75
Dry beans	60	Flax	60	Mustard	60

## MIXING INSTRUCTIONS

1. Fill the spray tank 1/2 full of water, start agitation and continue agitation throughout mixing and application.
2. If required, add the correct amount of dry formulation tank mix partners.
3. If required add the correct amount of liquid formulation tank mix partners.
4. Add correct amount of **Independence®**, followed by correct amount of **Empire® II or Tonto®** surfactant.
5. Complete filling of spray tank, apply product, and continue application until the tank is empty.
6. If application is stopped prior to completion, re-suspend spray solution by full agitation prior to commencing spraying again.

## UNDERSTANDING PERFORMANCE

- Optimal control occurs when applied between 12 °C and 24°C in warm moist growing conditions when weeds are small and actively growing.
- Typical symptoms (discoloration) of dying weeds may not be visible for several days to 1-3 weeks after application, depending on the grass species and growing conditions. Control of weeds may take 4-6 weeks.
- Control will be reduced if plants are stressed by lack of moisture, excessive moisture, low-temperature and/or very low relative humidity. Regrowth by tillering may occur if application is made under any of the above stress conditions.
- In wide row crops, where the canopy may be slow to close, cultivation may be necessary to control grasses that emerge after treatment.

Always read and follow all label precautions and directions.

\*When applying tank mix combinations, always follow all label requirements for each product used in the tank mix. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

†Supported by AgraCity. For a complete list of tank mix options, go to [AgraCity.com/Solutions](http://AgraCity.com/Solutions).

Boa®, Canuck®, Clobber®, Empire®, Independence®, Kamikaze®, Ninja® and Samurai® are trademarks of AgraCity or its affiliates. All other products are trademarks of their respective holders.

# KAMIKAZE® HERBICIDE

**SAME ACTIVE AS PURSUIT®**

**Imazethapyr Herbicide**

## WHY USE KAMIKAZE?

- Same active as Pursuit
- Strong control of redroot pigweed, stinkweed, volunteer canola (non-CL), & wild mustard
- Controls or suppresses 12 grass and broadleaf weeds
- Use in black and grey wooded soil zones
- Systemic mode of action for dependable control
- Early application timing for optimum yield potential
- Flushing control of shallow germinating weeds
- Tank mix options for improved grass control
- Low use rate, easy to use
- Effective one-pass weed control in peas at an affordable price

## FOR USE ON

- Alfalfa (newly seeded purestand for forage or seed production)
- Alfalfa (established for seed production)
- Chickling vetch (seed production only)
- Dry beans (pinto, pink, red)
- Field peas
- Soybeans (Manitoba only)



## WEEDS

### CONTROLLED (up to 4 leaf stage)

- Chickweed<sup>1</sup>
- Cleavers<sup>1</sup>
- Green foxtail
- Hemp-nettle<sup>1</sup>
- Redroot pigweed
- Shepherd's purse<sup>1</sup>
- Smartweed
- Stinkweed<sup>1</sup>
- Volunteer canola<sup>2</sup>
- Wild mustard<sup>1</sup>

### SUPPRESSED

- Wild oats<sup>3</sup>
- Wild buckwheat

<sup>1</sup> Not including Group 2 resistant biotypes

<sup>2</sup> Only non-Clearfield® varieties

<sup>3</sup> For suppression of wild oats apply Kamikaze between the 2-4 leaf stage of the weed



**KAMIKAZE** HERBICIDE

SAME ACTIVE AS PURSUIT

**REQUIRED SURFACTANT**

- Agral® 90 at 2.5 L per 1,000 L of water

**ACTIVE INGREDIENT**

- Imazethapyr 240 g/L solution

**PACKAGE SIZE**

- **Case:** 80 acres

**WHEN TO APPLY**

- **Crop stage:** Up to 6 node
- **Weed stage:** Up to and including 4 leaf stage

**WATER VOLUME**

- 10-40 US gallons/acre (40-160 L/acre)

**RAINFAST PERIOD**

- 3 hours

**RE-CROPPING OPTIONS**

- **Year of application:** Field peas, CL canola.
- **1 year after application:** Alfalfa, barley, CL canola, field peas, lentils, spring wheat
- **2 years after application:** Non-CL canola
- Conduct a field bioassay the year before growing any crop other than those listed above

**TANK MIX OPTIONS\***

- Independence®†, Quiz®†

**STORAGE**

- Keep from freezing. Store above 5°C

**GRAZING AND HARVEST**

- Graze treated fields or cut for feed 30 days after application
- Harvest treated crops 60 days after application

**MIXING INSTRUCTIONS**

1. Fill the spray tank 1/2 full of water, start sprayer agitation and continue throughout mixing and application process.
2. Add the required amount of **Kamikaze** and agitate until dissolved.
3. If required, add correct amount of tank mix partners.
4. Add the required amount of surfactant.
5. Fill the remainder of the tank with water and apply.
6. If application is stopped prior to completion, re-suspend spray solution by full agitation prior to commencing spraying again.

**UNDERSTANDING PERFORMANCE**

- Optimal control occurs when applied between 12°C and 24°C during warm moist growing conditions
- Typical symptoms (discoloration at the growing point) may not be noticeable for several days for up to two weeks depending on growing conditions. Control of weeds may take 3-4 weeks.
- Early application is critical; weeds must be emerged but less than 4 leaf stage for optimum control.
- Use higher water volumes for dense weed populations and thick crop canopies.
- Do not apply if temperatures of +5°C or lower are forecast within 3 days of application. Application just before or after cold temperatures can result in crop injury or yellowing.
- Control will be reduced, or crop injury may occur if plants are stressed by lack of moisture, excessive moisture, poor fertility, cold temperatures or other crop stress factors.
- Apply in the black or grey wooded soil zones only
- **Kamikaze** can be persistent in soil and has re-cropping restrictions. Drought, extremes in soil pH and excessive cold may result in an increased potential for injury to succeeding crops.

Always read and follow all label precautions and directions.

\*When applying tank mix combinations, always follow all label requirements for each product used in the tank mix. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

†Supported by AgraCity. For a complete list of tank mix options, go to [AgraCity.com/Solutions](http://AgraCity.com/Solutions).

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# METEOR<sup>®</sup> HERBICIDE

**SAME ACTIVE AS SENCOR<sup>®</sup>**  
**Metribuzin Herbicide**

## WHY USE METEOR?

- Same active as Sencor
- A Group 5 herbicide for resistance management
- Provides strong control of broadleaf weeds including those resistant to Group 2 herbicides
- Controls or suppresses 14 broadleaf weeds
- Can be used in all soil zones
- Can be used on many crops, pre-seed or in-crop
- Allows early application timing for optimum yield potential
- Delivers effective weed control in pulse and specialty crops

## FOR USE ON

- Lentils, chickpeas, field peas, processing peas, fababeans, soybeans, barley, spring wheat, dryland winter wheat, potatoes, asparagus (established), highbush blueberries (newly planted), carrots, narrow-leaved lupin, shelterbelts

## WEEDS

### CONTROLLED

**Controlled in cereals at 111 grams/acre. Suppression only in chickpeas or lentils. See label for weed control by rate.**

- |                                 |   |
|---------------------------------|---|
| • Ball mustard                  | • Night-flowering catchfly <sup>1</sup> |
| • Chickweed                     | • Redroot pigweed <sup>1</sup>          |
| • Common groundsel <sup>1</sup> | • Stinkweed                             |
| • Corn spurry                   | • Tartary buckwheat                     |
| • Green smartweed               | • Volunteer canola <sup>2</sup>         |
| • Hemp-nettle                   | • Wild mustard                          |
| • Lady's-thumb <sup>1</sup>     | • Wormseed mustard <sup>1</sup>         |
| • Lamb's-quarter                |   |

<sup>1</sup> Controlled in spring wheat and barley only

<sup>2</sup> Not including triazine-tolerant canola



# METEOR HERBICIDE

SAME ACTIVE AS SENCOR

## REQUIRED SURFACTANT

- None required
- **Pre-emergent applications:** Under drought conditions, and for improved burndown of small emerged annual weeds, non-ionic surfactant may be added at 0.1% v/v (1L per 100L spray solution)

## ACTIVE INGREDIENT

- Metribuzin 75% water dispersible granular

## PACKAGE SIZE

- **Case:** 60-84 acres (rate dependent)

## WHEN TO APPLY

- **Crop stage:**  
**Peas, lentils:** Up to 6" vine length  
**Chickpeas:** Up to 2.5" tall when vines have 1-3 above ground nodes  
**Cereals:** 2-5 leaf stage
- **Weed stage:** Apply when weeds are small, approximately 2 inches in height or diameter

## WATER VOLUME

- **Preplant incorporated:** 10 US gallons/acre (40L/acre)
- **Post-emergent:**  
**Cereals** - 10 US gallons/acre (40L/acre)  
**Pulses** - 18 US gallons/acre (70 L/acre)

## RAINFAST PERIOD

- 6 hours

## RE-CROPPING OPTIONS

- Do not seed canola the year after application.
- Fall seeded crops may be injured when seeded the same year as preplant or post-emergence applications.
- See label for more details and complete list of sensitive crops.

## TANK MIX OPTIONS\*

- **Soybeans (pre-plant incorporated):** Stallion™† (or pre-emergent), Treflan® EC
- **Cereals:** 2,4-D Amine, Banvel, MCPA Amine

## STORAGE

- Store in a cool, dry place away from food or feed and out of the reach of children. Product may be frozen.

## GRAZING AND HARVEST

- Graze peas, chickpeas, or lentils 70 days after treatment
- Graze cereals 30 days after application
- **Pre-harvest Intervals:**  
 Barley, wheat, potatoes: 60 days  
 Lentils, field peas, chickpeas: 70 days  
 Chickpeas: 40 days

## MIXING INSTRUCTIONS

1. Fill the spray tank 1/2 full of water, start sprayer agitation and continue throughout mixing and application process.
2. Add the required amount of **Meteor** and agitate until dissolved.
3. If required, add correct amount of tank mix partners.
4. If required, add correct amount of surfactant.
5. Fill the remainder of the tank with water and apply.
6. If application is stopped prior to completion, re-suspend spray solution by full agitation prior to commencing spraying again.

## UNDERSTANDING PERFORMANCE

- Using lower than recommended water volumes increases the risk of leaf burn
- Allow at least 4 to 5 days between **Meteor** application and a grass weed herbicide
- Crop must be seeded at least 5cm below soil surface.
- Be aware of soil organic matter levels when applying as special conditions may occur. See label for more detail.
- Optimal control occurs when applied between 12°C and 24°C during warm moist growing conditions. Crop injury may occur if high temperatures occur within 48 hours of application. Cold, cloudy weather or frost within 3 days of application will also aggravate injury.
- Typical symptoms (yellowing) generally are usually seen 5-7 days after application. Weeds turn brown and die within 14-16 days.
- Early application is critical; application past the labelled crop stage can result in severe crop injury
- Heavy rain after application may result in severe crop injury.
- Control will be reduced, or crop injury may occur if plants are stressed due to lack of moisture, excessive moisture, poor fertility, cold temperatures, or other crop stress factors.

Always read and follow all label precautions and directions.

\*When applying tank mix combinations, always follow all label requirements for each product used in the tank mix. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

†Supported by AgraCity. For a complete list of tank mix options, go to [AgraCity.com/Solutions](http://AgraCity.com/Solutions).

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# MCPA ESTER 600 HERBICIDE

## WHY USE MCPA ESTER 600 HERBICIDE?

- Excellent tank-mixability
- Crop safety
- Pre-seed
- Post-emerge
- Systemic mode of action
- Use in all soil zones
- Wide window of application
- Bulk package options

## FOR USE ON

- Wheat, barley, oats, spring and fall rye, flax, established grasses, alfalfa, alsike and red clover



## WEEDS

### CONTROLLED

- Burdock
- Cocklebur
- Common plantain
- Common ragweed
- False ragweed
- Flixweed\*
- Giant ragweed
- Lamb's-quarters
- Mustards<sup>1</sup>
- Prickly lettuce
- Russian pigweed\*\*
- Shepherds purse\*\*
- Stinkweed
- Vetch
- Wild radish
- Wild annual sunflower

\*only at the seedling stage

\*\*use higher rate only

<sup>1</sup>excluding dog and tansy





# MCPA ESTER 600 HERBICIDE

## REQUIRED SURFACTANT

- None required

## ACTIVE INGREDIENT

- MCPA Ester 600 gm/L emulsifiable concentrate (EC)

## PACKAGE SIZES:

- **Case:** 80 Acres
- **Bulk:** 460 Acres, 2,000 Acres

## WHEN TO APPLY

- **Wheat, Barley, Rye:** 3 leaf to early flag leaf
- **Oats:** 1 leaf to early flag leaf
- **Fall rye and winter wheat:** Spring application only between full tillering and the shot blade stage
- **Flax:** 5 cm in height to early bud stage
- **Established grasses, alfalfa, alsike and red clover:** very early in the spring, before the growth of perennial forages has begun

## WATER VOLUME

- Minimum 10 US gallons/acre (40 L/ac)

## RAINFAST PERIOD

- 4 hour

## RE-CROPPING OPTIONS

- Grow all major crops the year after application

## TANK MIX OPTIONS\*

- Refer to label

## GRAZING AND HARVEST

- Do not graze or harvest within 7 days of application
- Withdraw meat animals from treated fields at least 3 days before slaughter

## MIXING INSTRUCTIONS

1. Fill the spray tank 1/2 full of water, start sprayer agitation and continue throughout mixing and application process.
2. Add any dry formulation tank mix partners and dissolve.
3. Add **MCPA Ester 600**.
4. Add the required amount of any tank mix partners
5. Slowly add the required amount of grass weed control tank mix partner.
6. Add any required surfactant if needed.
7. Add the remainder of the water and apply.
8. If application is stopped prior to completion, re-suspend spray solution by full agitation prior to commencing spraying again.

## UNDERSTANDING PERFORMANCE

- Best results will occur with temperatures between 12°C and 24°C in warm moist conditions when weeds are smaller and actively growing.
- Use higher water volumes with heavier weed pressure, larger weeds and thicker crop canopy.
- Typical symptoms (twisting of the stems) of dying weeds may not be visible for several days to 2 weeks after application, depending on growing conditions. Control of weeds may take 3-4 weeks.
- Degree of control and duration of effect are dependent on weed sensitivity, weed size, crop competition, growing condition at and following treatment, and spray coverage.
- When weeds are stressed due to drought, flooding or prolonged hot or cool temperatures (less than 8°C or more than 27°C), control can be reduced or delayed since weeds are not actively growing.
- Do not make applications to weeds stressed longer than 20 days due to lack of moisture as unsatisfactory

Always read and follow all label precautions and directions.

\*When applying tank mix combinations, always follow all label requirements for each product used in the tank mix. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

For a complete list of tank mix options, go to [AgraCity.com/Solutions](http://AgraCity.com/Solutions)

# MPOWER® 2, 4-D ESTER 700 HERBICIDE

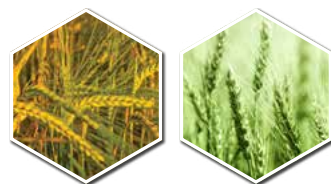
GROUP  
4

## WHY USE MPOWER 2, 4-D ESTER 700 HERBICIDE?

- Same active as other 2, 4-D Ester herbicides
- Control of redroot pigweed, wild mustard, lamb's quarters, and shepherd's purse
- Controls or suppresses 46 broadleaf weeds
- No re-cropping restrictions the year after application
- Safe on a variety of crops
- A wide range of rates for flexible weed control
- A wide window of application
- A variety of tank mix options
- Proven control of broadleaf weeds at an affordable price

## FOR USE ON

- Field corn, wheat (spring and winter), barley, spring and fall rye



## WEEDS

### CONTROLLED

#### Controlled at 200-320 ml/ac

- Annual sow thistle
- Bluebur (up to 4 leaf)
- Burdock (up to 4 leaf)
- Cocklebur
- Common ragweed
- Daisy fleabane
- False flax
- False ragweed
- Flixweed
- Goat's beard
- Giant ragweed
- Kochia
- Lamb's quarters
- Mustards (except dog and tansy)
- Narrow leaved hawk's-beard (fall, and at 1-2 leaf stage in spring)
- Plantain
- Prickly lettuce
- Redroot pigweed
- Russian pigweed
- Russian thistle
- Shepherd's purse
- Stinging nettle
- Stinkweed
- Thyme-leaf spurge
- Volunteer canola
- Wild radish
- Wild sunflower

#### Controlled at 360-520 ml/ac

- Curled dock (up to 4 leaf)
- Dog mustard
- Flixweed (spring prior to bolting)
- Groundsel
- Hairy galinsoga
- Knotweed (up to 4 leaf)
- Narrow leaved hawk's beard (spring prior to bolting)
- Sheep sorrel
- Velvet leaf

### TOP GROWTH CONTROL ONLY

#### At 440-520 ml/ac

- Biennial wormwood
- Canada thistle
- Curled dock
- Dandelion
- Field bindweed
- Field chickweed (suppression)
- Field horsetail
- Hemp-nettle (suppression, prior to 4 leaf)
- Lady's thumb
- Perennial sow thistle
- Wild buckwheat (suppression)

See product label for a complete list of controlled weeds.



# MPOWER 2, 4-D ESTER HERBICIDE

## REQUIRED SURFACTANT

- None required

## ACTIVE INGREDIENTS

- 2,4-D Ester 660 g/L emulsifiable concentrate

## PACKAGE SIZE

- Rate dependent
- **Case:** 2 x 10L
- **Tote:** 510 L

## WHEN TO APPLY

- **Field corn:** Before corn is 15 cm tall and/or before the 6-leaf stage
- **Spring cereals:** 4 leaf to early flag leaf
- Winter wheat and fall rye: Treat in the spring from full tillering to early flag leaf. Do not apply in fall.

## WATER VOLUME

- **Ground:** 5-20 US gallons/acre (20 – 80 L/acre)

## RAINFAST PERIOD

- 1 hours

## RE-CROPPING OPTIONS

- No restrictions the year after an in-crop application

## TANK MIX OPTIONS†

- Many broadleaf and grass herbicide products support 2,4-D tank mix. See tank mix partner for supported crops and rates

## STORAGE

- Product can be frozen. If frozen, allow to thaw completely and agitate prior to use.

## GRAZING AND HARVEST

- Do not permit lactating dairy animals to graze fields within 7 days after application
- Do not harvest forage or cut hay within 30 days after application
- Withdraw meat animals from treated fields at least 3 days prior to slaughter

## MIXING INSTRUCTIONS

1. Fill the spray tank 1/2 full of clean water, begin agitation and continue throughout mixing and application. process.
2. If required, add the correct amount of any dry formulation products.
3. If required, add correct amount of grassy weed tank mix partner.
4. Add the required amount of **MPower 2, 4-D 700 Ester**.
5. Add any required surfactant.
6. Complete filling of sprayer and apply.
7. If application is stopped prior to completion, re-suspend spray solution by full agitation prior to commencing spraying again.

## UNDERSTANDING PERFORMANCE

- Good coverage is essential. Use higher water volumes in heavy canopy or weed pressure. High water rates reduce the risk of crop injury
- Optimum control occurs when applied between 15°C and 27°C in warm, moist growing conditions.
- Typical symptoms of dying weeds will be visible within several days after application depending on growing conditions. Control of weeds may take up to 2-3 weeks.
- Optimum weed control will occur when applied at the 2-4 leaf stage of the weeds.
- Weeds hardened off by cold weather or drought stress may not be adequately controlled or suppressed and regrowth may occur.
- Application to crops that are stressed by severe weather conditions, frost, low fertility, water-logged soil (soil at or near field capacity), disease or insect damage may result in crop injury. Drought, disease or insect damage following application may also result in crop injury.
- Weed control may be reduced during stress conditions, e.g. drought, heat or cold stress, if weeds have initiated flowering, or if heavy infestations exist.

Always read and follow all label precautions and directions.

\*When applying tank mix combinations, always follow all label requirements for each product used in the tank mix. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

MPower® is a trademark of AgraCity or its affiliates. All other products are trademarks of their respective holders.

# MPOWER<sup>®</sup> PRO HERBICIDE

**SAME ACTIVE AS ALLY<sup>®</sup>**  
**Metsulfuron Herbicide**

## WHY USE MPOWER PRO?

- Same active as Ally
- Excellent control of hemp-nettle, redroot pigweed, smartweed, stinkweed, and scentless chamomile
- Controls 26 tough to kill broadleaf weeds
- Season-long control of chickweed and other flushing weeds
- Use in all soil zones
- Systemic mode of action for optimum control
- Low use rates
- Great tank mix options with **Aurora<sup>®</sup>** or **Himalaya<sup>®</sup>**
- Great value and affordable price for big and tough broadleaf weed control

## FOR USE ON

- Spring wheat, durum wheat, barley, established grasses, pasture and rangeland, and summerfallow

## WEEDS

### CONTROLLED OR SUPPRESSED

#### At 3 grams/acre rate

- |                                 |                                 |
|---------------------------------|---------------------------------|
| • Ball mustard                  | • Prostrate pigweed             |
| • Bluebur                       | • Redroot pigweed               |
| • Canada thistle <sup>1,5</sup> | • Russian thistle               |
| • Chickweed                     | • Scentless chamomile           |
| • Common groundsel              | • Shepherd's purse              |
| • Corn spurry                   | • Sow thistle <sup>1,5</sup>    |
| • Cow cockle                    | • Stinkweed                     |
| • Flixweed                      | • Stork's-bill                  |
| • Green smartweed               | • Tartary buckwheat             |
| • Hemp-nettle                   | • Toadflax <sup>1</sup>         |
| • Kochia <sup>2</sup>           | • Volunteer canola <sup>2</sup> |
| • Lady's thumb                  | • Wild buckwheat <sup>1,6</sup> |
| • Lamb's-quarters <sup>1</sup>  | • Wild mustard                  |

#### At 2 grams/acre + 2,4-D<sup>4</sup>

- |                                 |                                 |
|---------------------------------|---------------------------------|
| • Annual sunflower              | • Prickly lettuce               |
| • Ball mustard                  | • Redroot pigweed               |
| • Canada thistle <sup>1,5</sup> | • Russian pigweed               |
| • Chickweed                     | • Russian thistle               |
| • Cow cockle                    | • Shepherd's purse              |
| • Flixweed                      | • Sow thistle <sup>1,5</sup>    |
| • Green smartweed               | • Stinkweed                     |
| • Hemp-nettle                   | • Sweet clover                  |
| • Kochia <sup>2</sup>           | • Toadflax <sup>1</sup>         |
| • Lamb's-quarters               | • Volunteer canola <sup>3</sup> |
| • Narrow-leaved hawk's-beard    | • Wild mustard                  |
| • Plantain                      | • Wild buckwheat <sup>1,6</sup> |
|                                 | • Wormseed mustard              |

<sup>1</sup> Suppression

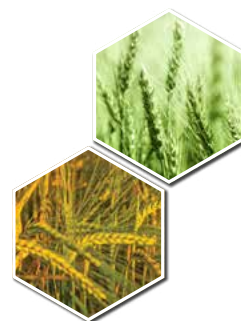
<sup>2</sup> Not including Group 2 resistant biotypes

<sup>3</sup> Including all HT types

<sup>4</sup> See MPower Pro label for recommended rates of 2,4-D amine or ester

<sup>5</sup> Apply when majority of thistles have emerged and are less than 6 inches tall

<sup>6</sup> Apply at the 1-3 leaf stage. Large weeds may re-grow after treatment



**MPOWER PRO** HERBICIDE

SAME ACTIVE AS ALLY

**REQUIRED SURFACTANT**

- If used alone Agra<sup>®</sup> 90 at 2 L per 1,000 L water
- If used with a wild oat herbicide, only the surfactant required by that herbicide is required

**ACTIVE INGREDIENTS**

- Metsulfuron 60% water dispersible granule (WDG)

**PACKAGE SIZE**

- **Case:** 120 acres (low rate), or 80 acres (high rate)

**WHEN TO APPLY**

- **Crop stage (cereal crops):** 2 leaf - flag leaf
- **Other crops and uses:** See label
- **Weed stage:** Less than 8 cm tall unless otherwise stated.

**WATER VOLUME**

- 5-10 US gallons/acre (20-40 L/acre)

**RAINFALL PERIOD**

- 1 hour

**RE-CROPPING OPTIONS**

Crops for rotation	Soil pH	Minimum cropping interval* (months)	
		Black and gray wooded soils	Brown and dark brown soils
Alfalfa, peas, flax and red clover	7.5 or lower	22	Field bioassay
Spring wheat, barley and durum wheat	7.9 or lower	10	10
Canary seed	7.9 or lower	48	48
Canola	6.9 or lower	10	22
	7.0-7.9	22	34
Flax	6.9 or lower	10	22
	7.0-7.9	34	34
Fescue	7.5 or lower	10	Field bioassay
Lentils	6.9 or lower	34	34
	7.0-7.9	48	48
Oats	6.9 or lower	10	10
	7.0-7.9	10	22
Yellow mustard	7.9 or lower	48	48
All other crops	7.9 or lower	Field bioassay	Field bioassay

**Impact of Rainfall:** When re-cropping to broadleaf crops after application of MPower Pro, extend the rotational interval by 1 year if rainfall was less than 130 mm in the brown and dark brown soil zone, and less than 250 mm in the black and grey wooded soil zone in any year within the stated interval prior to planting.

**TANK MIX OPTIONS\***

- **Aurora<sup>®</sup>, Clobber<sup>®</sup>, Clobber M<sup>®</sup>, Foxxy<sup>®</sup> M<sup>†</sup>, Himalaya<sup>®</sup>,** 2,4-D Ester
- See label for crop specific tank mix options.

**STORAGE**

- Product can be frozen

**GRAZING AND HARVEST**

- Wheat, barley or forage crops may be grazed after treatment.

**MIXING INSTRUCTIONS**

1. Fill the spray tank 1/2 full of clean water, begin agitation and continue throughout mixing and application process.
2. Add the required rate of **MPower Pro** and agitate until product is fully dissolved.
3. Add the required amount of grass control tank mix partner.
4. Add the required amount of any additional tank mix partner if needed.
5. Add required amount of surfactant if needed, complete filling tank with balance of water and apply.
6. If application is stopped prior to completion, re-suspend spray solution by full agitation prior to resuming spraying.

**UNDERSTANDING PERFORMANCE**

- Optimum control will occur during warm moist conditions when weeds are actively growing.
- For best results, ensure thorough coverage of target weeds, use higher water volumes for heavier weed pressure.
- Typical symptoms (discoloration) of dying weeds may not be noticeable for 1-3 weeks after application depending on growing conditions and weed sensitivity. Control of weeds may take 3-4 weeks.
- Weeds hardened off by cold weather or drought stress may not be adequately controlled or suppressed, and regrowth may occur.
- Application to crops that are stressed by severe weather conditions, frost, low fertility, water-logged soil (soil at or near field capacity), disease or insect damage may result in crop injury. Drought, disease or insect damage following application may also result in crop injury.
- Do not use on highly variable soils that have soil pH higher than 7.9, large gravelly or sandy areas, eroded knolls, calcium deposits, or organic matter less than 3% as risk of crop damage will increase.
- Product effectiveness will be reduced if left in the sprayer for more than 48 hours after mixing.

Always read and follow all label precautions and directions.

\*When applying tank mix combinations, always follow all label requirements for each product used in the tank mix. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

<sup>†</sup>Supported by AgraCity. For a complete list of tank mix options, go to [AgraCity.com/Solutions](http://AgraCity.com/Solutions).

Aurora<sup>®</sup>, Clobber<sup>®</sup>, Foxxy<sup>®</sup>, Himalaya<sup>®</sup>, and MPower<sup>®</sup> are trademarks of AgraCity or its affiliates. All other products are trademarks of their respective holders.

# MPOWER<sup>®</sup> RX HERBICIDE

**SAME ACTIVE AS REFINE<sup>®</sup> EXTRA**  
**Thifensulfuron + Tribenuron Herbicide**

## WHY USE MPOWER RX?

- Same active as Refine Extra
- Excellent control of hemp-nettle, redroot pigweed, chickweed and mustard species
- Controls or suppresses 28 broadleaf weeds
- Use in all soil zones
- Systemic mode of action for dependable control
- Wide window of application
- Excellent crop safety at all growing stages.
- Great tank mix partner with Aurora<sup>®</sup>, HellCat<sup>®</sup>, or Himalaya<sup>®</sup>
- Numerous additional tank mix options
- No re-cropping restrictions
- Low use rate, easy to use
- Outstanding broad-spectrum control of broadleaf weeds in cereal and grass crops at an affordable price

## FOR USE ON

- Spring wheat, durum wheat, winter wheat, barley, oats, seedling and established forage grasses for forage and seed production only.

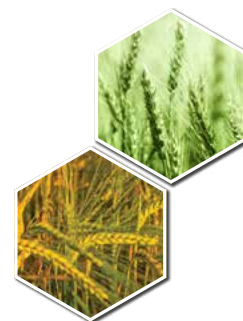
## WEEDS

### CONTROLLED

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>• Ball mustard</li> <li>• Chickweed<sup>1</sup></li> <li>• Common groundsel</li> <li>• Corn spurry</li> <li>• Cow cockle</li> <li>• Flixweed</li> <li>• Green smartweed</li> <li>• Hemp-nettle</li> <li>• Kochia<sup>2</sup></li> <li>• Lady's-thumb</li> <li>• Lamb's quarters</li> </ul> | <ul style="list-style-type: none"> <li>• Narrow-leaved hawk's-beard</li> <li>• Redroot pigweed</li> <li>• Russian thistle</li> <li>• Shepherd's purse</li> <li>• Stinkweed</li> <li>• Tartary buckwheat</li> <li>• Volunteer canola<sup>3</sup></li> <li>• Volunteer sunflower</li> <li>• Wild buckwheat<sup>4</sup></li> <li>• Wild mustard</li> </ul> |
|---|---|

### SUPPRESSED

- Canada thistle<sup>5</sup>
- Cleavers<sup>2</sup> (1-3 whorls)
- Round-leaved mallow<sup>6</sup>
- Scentless chamomile
- Sow thistle<sup>5</sup>
- Stork's-bill
- Toadflax<sup>7</sup>



<sup>1</sup> Emerged plants only. Apply when chickweed is small and actively growing and before canopy close.

<sup>2</sup> Not including Group 2 resistant biotypes.

<sup>3</sup> Not including Clearfield<sup>®</sup> tolerant varieties.

<sup>4</sup> Apply to actively growing wild buckwheat in the cotyledon to 3 leaf stage. Large plants may regrow after treatment.

<sup>5</sup> Apply before the bud stage when thistles are less than 15 cm in height and when majority of thistles have emerged and are actively growing.

<sup>6</sup> Apply to actively growing mallow from 2-6 leaf stage, plants will be stunted but overall populations may not be reduced.

<sup>7</sup> Apply when weeds are no taller than 15 cm in height. A control program includes both chemical application and tillage.





**MPOWER RX** HERBICIDE

SAME ACTIVE AS REFINE EXTRA

**REQUIRED SURFACTANT**

- **MPower RX** alone: Agral® 90, or AgSurf® at 2 L per 1,000 L water
- If mixed with a wild oat herbicide, only the surfactant required by that product is required

**ACTIVE INGREDIENT**

- Thifensulfuron methyl 50% + tribenuron methyl 25% wettable granules (WG)

**PACKAGE SIZE**

- **Case:** 40 acres

**WHEN TO APPLY**

- **Crop stage:** Cereals: 2 leaf to flag leaf, prior to head emergence.
- **Forage grasses:** Post-emergence
- **Weed stage:** Less than 10 cm in height or diameter.

**WATER VOLUME**

- **Ground:** Minimum 5 US gallons/acre (20 L/acre)
- **Aerial:** Minimum 2.5 US gallons/acre (10 L/acre)

**RAINFAST PERIOD**

- 1 hour

**RE-CROPPING OPTIONS**

- Grow all major crops the year after application

**TANK MIX OPTIONS\***

- **Ace®†, Aurora®, Clobber® M†, Foxy® Pro†, HellCat®, Himalaya®, 2,4-D or MCPA Amine or Ester, Axial®†, Simplicity™†, Traxos®†**

**STORAGE**

- Product can be frozen.

**GRAZING AND HARVEST**

- Graze treated crop or feed to livestock 7 days after application
- No pre-harvest interval indicated

**MIXING INSTRUCTIONS**

1. Fill the sprayer 1/2 full of clean water, begin agitation and continue throughout mixing and application process.
2. Add the appropriate rate of **MPower RX** and dissolve.
3. Add the required amount of grass weed control tank mix partner.
4. Add any required EC (liquid) formulation products such as MCPA.
5. Add surfactant if required, then complete filling tank and apply.
6. Product must be applied within 12 hours in order to remain effective.

**UNDERSTANDING PERFORMANCE**

- Use 50 mesh or larger screens in spraying equipment.
- Optimal control occurs when applied between 12°C and 24°C in warm moist growing conditions.
- Ensure thorough spray coverage of target weeds and use higher water volumes with dense crop canopy and/or large weeds.
- Typical symptoms (discoloration) of dying weeds may not be noticeable for 1 to 3 weeks after application depending upon growing conditions. Control of weeds may take 3-4 weeks.
- Degree of control and duration of effect are dependent on weed sensitivity, weed size, crop competition, growing conditions at and following treatment, and spray coverage.
- Weeds hardened off by cold weather or drought stress may not be adequately controlled or suppressed and regrowth may occur.
- Application to crops that are stressed by severe weather conditions, frost, low fertility, water-logged soil (soil at or near field capacity), disease or insect damage may result in crop injury. Drought, disease, or insect damage following application may also result in crop injury.
- Product will degrade if left in the sprayer for more than 24 hours after mixing.

Always read and follow all label precautions and directions.

\*When applying tank mix combinations, always follow all label requirements for each product used in the tank mix. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

†Supported by AgraCity. For a complete list of tank mix options, go to [AgraCity.com/Solutions](http://AgraCity.com/Solutions).

Ace®, Aurora®, Clobber®, Foxy®, HellCat®, Himalaya® and MPower® are trademarks of AgraCity or its affiliates. All other products are trademarks of their respective holders.

# NINJA® HERBICIDE

**SAME ACTIVES AS ODYSSEY®**  
**Imazamox + Imazethapyr Herbicide**

## WHY USE NINJA?

- Same actives as Odyssey
- Proven control of redroot pigweed, stinkweed, volunteer canola and wild mustard
- Controls or suppresses 15 broadleaf weeds
- Use in all soil zones
- Systemic mode of action for dependable control
- Early application timing for optimum yield potential
- Low use rate, easy to use
- Effective, high-performance weed control at an affordable price

## FOR USE ON

- Field peas



## WEEDS

### CONTROLLED (at 17.2 g/acre)

#### Broadleaf Weeds

- Chickweed<sup>1</sup>
- Cleavers<sup>1</sup>
- Flixweed
- Green smartweed
- Redroot pigweed
- Shepherd's purse<sup>1</sup>
- Stinkweed<sup>1</sup>
- Stork's bill
- Volunteer canola<sup>2</sup>
- Volunteer tame mustard
- Wild mustard<sup>1</sup>

<sup>1</sup> Not including Group 2 resistant biotypes.

<sup>2</sup> Not including Clearfield® varieties.

### SUPPRESSED

- Hemp-nettle<sup>1</sup>
- Lamb's-quarters
- Wild buckwheat



**NINJA** HERBICIDE

SAME ACTIVES AS ODYSSEY

**REQUIRED SURFACTANT**

- **Assassin® II** or **Merge®** at 5 L per 1,000 L of water

**ACTIVE INGREDIENT**

- Imazamox 35% + Imazethapyr 35% water dispersible granules (WDG)

**PACKAGE SIZE**

- **Case:** 40 acres

**WHEN TO APPLY**

- **Crop stage:** 1 to 6 true leaf stage
- **Weed stage:**  
**Broadleaf weeds:** Up to the 4 leaf stage

**WATER VOLUME**

- 10 US gal/acre (40 L/acre)

**RAINFAST PERIOD**

- 3 hours

**RE-CROPPING OPTIONS**

- 1 year after application: Barley, chickpeas, Clearfield® canola, Clearfield® lentils, durum wheat, field peas, spring wheat, tame oats
- Conduct a field bioassay the year before growing any crop other than those listed above
- Refer to label for area specific re-cropping restrictions

**TANK MIX OPTIONS\***

- **Independence®†**, **Quiz®†**, **Poast® Ultra†**

**STORAGE**

- Keep from freezing. Store above 5°C

**GRAZING AND HAREST**

- Treated fields may be fed to livestock 30 days after application
- Do not harvest forage or cut hay for forage
- Harvest treated crops 60 days after application

**MIXING INSTRUCTIONS**

1. Use 50 mesh or coarser filter screens.
2. Fill the spray tank 1/2 full of water, start sprayer agitation and continue throughout mixing and application process.
3. Add the required amount of **Ninja** and agitate until dissolved.
4. Add any tank mix partners if required.
5. Add the required amount of surfactant.
6. Fill the remainder of the tank with water and apply.
7. If application is stopped prior to completion, re-suspend spray solution by full agitation prior to commencing spraying again.

**UNDERSTANDING PERFORMANCE**

- Optimal control occurs when applied between 12°C and 24°C during warm moist growing conditions
- Typical symptoms (yellow striping and discoloration at the growing point) may not be noticeable for several days – 2 weeks depending on growing conditions. Control of weeds may take 3-4 weeks.
- Early application is critical; weeds must be emerged but less than 4 leaf stage for optimum control.
- Use higher water volumes for dense weed populations and thick crop canopies.
- Do not apply if temperatures of +5°C or lower are forecast within 3 days of application. Application just before or after cold temperatures can result in crop injury or reduced control.
- Control will be reduced, or crop injury may occur if plants are stressed by lack of moisture, excessive moisture, poor fertility, cold temperatures or other crop stress factors.
- **Ninja** can be persistent in soil. Drought, extremes in soil pH and excessive cold may result in an increased potential for injury to succeeding crops. Do not grow LibertyLink® or Roundup Ready® canola the year after application of **Ninja**.
- Do not apply **Ninja** more than once per year.

Always read and follow all label precautions and directions.

†Supported by AgraCity. For a complete list of tank mix options, go to [AgraCity.com/Resources](http://AgraCity.com/Resources)

\*When applying tank mix combinations, always follow all label requirements for each product used in the tank mix. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

Assassin®, Independence®, Ninja® and Quiz® are trademarks of AgraCity or its affiliates. All other products are trademarks of their respective holders

# NINJA® MASTER HERBICIDE

## AGRACITY EXCLUSIVE PRODUCT

### Imazamox + Imazethepyr + Clethodim Herbicide

#### WHY USE NINJA MASTER?

- AgraCity Exclusive Product - contains 2 active ingredients for reliable grass and broadleaf weed control, including control of Group 2 resistant wild oats and green foxtail, with some residual
- Proven control of redroot pigweed, stinkweed, volunteer canola and wild mustard
- Controls or suppresses 26 grass and broadleaf weeds
- Use in all soil zones
- Systemic mode of action for dependable control
- Two modes of action for resistance management and outstanding control
- Early application timing for optimum yield potential
- Low use rate, easy to use
- Effective high-performance one-pass weed control at an affordable price

## FOR USE ON

- Field peas



## WEEDS

### CONTROLLED

#### Broadleaf Weeds

- Chickweed<sup>1</sup>
- Cleavers<sup>1</sup>
- Flixweed
- Green smartweed
- Redroot pigweed
- Shepherd's purse<sup>1</sup>
- Stinkweed<sup>1</sup>
- Stork's bill
- Volunteer canola<sup>2</sup>
- Volunteer tame mustard
- Wild mustard

#### Grass Weeds

- Barnyard grass
- Green foxtail
- Fall panicum
- Persian darnel
- Proso millet
- Volunteer cereals
- Volunteer corn
- Volunteer canary grass
- Wild oats
- Witchgrass
- Yellow foxtail

### SUPPRESSED

- Hemp-nettle<sup>1</sup>
- Kochia<sup>1</sup>
- Lamb's-quarters
- Wild buckwheat

<sup>1</sup> Not including Group 2 resistant biotypes

<sup>2</sup> Not including Clearfield® varieties



# NINJA MASTER HERBICIDE

AGRICITY EXCLUSIVE PRODUCT

## REQUIRED SURFACTANT

- Merge® at 5 L per 1,000 L of water

## ACTIVE INGREDIENT

- Imazamox 35% + Imazethapyr 35% water dispersible granules (WDG)
- Clethodim 240 g/L emulsifiable concentrate (EC)

## PACKAGE SIZE

- **Case:** 160 acres

## WHEN TO APPLY

- **Crop stage:** 1 to 6 true leaf stage
- **Weed stage:**  
**Broadleaf weeds:** up to the 4 leaf stage  
**Grass weeds:** 2-6 leaf stage

## WATER VOLUME

- 5-10 US gallons/acre (20-40 L/acre)

## RAINFEST PERIOD

- 3 hours

## RE-CROPPING OPTIONS

- 1 year after application: barley, canary seed, chickpeas, Clearfield® canola, Clearfield® lentils, durum wheat, field peas, spring wheat, tame oats
- Conduct a field bioassay the year before growing any crop other than those listed above
- Refer to label for area-specific re-cropping restrictions

## TANK MIX OPTIONS\*

- None

## STORAGE

- Keep from freezing. Store above 5°C

## GRAZING AND HAREST

- Treated fields may be fed to livestock 30 days after application
- Do not harvest forage or cut hay for forage
- Harvest treated crops 60 days after application

## MIXING INSTRUCTIONS

1. Use 50 mesh or coarser filter screens.
2. Fill the spray tank 1/2 full of water, start sprayer agitation and continue throughout mixing and application process.
3. Add the required amount of **Ninja** and agitate until dissolved.
4. Add the required amount of **Independence®**.
5. Add the required amount of surfactant.
6. Fill the remainder of the tank with water and apply.
7. If application is stopped prior to completion, re-suspend spray solution by full agitation prior to commencing spraying again

## UNDERSTANDING PERFORMANCE

- Optimal control occurs when applied between 12°C and 24°C during warm moist growing conditions
- Typical symptoms (yellow striping and discoloration at the growing point) may not be noticeable for several days – 2 weeks depending on growing conditions. Control of weeds may take 3-4 weeks.
- Early application is critical; weeds must have emerged but less than 4 leaf stage for optimum control.
- Use higher water volumes for dense weed populations and thick crop canopies.
- Do not apply if temperatures of +5°C or lower are forecast within 3 days of application. Application just before or after cold temperatures can result in crop injury or yellowing.
- Control will be reduced, or crop injury may occur if plants are stressed by lack of moisture, excessive moisture, poor fertility, cold temperatures or other crop stress factors.
- **Ninja Master** can be persistent in soil. Drought, extremes in soil pH and excessive cold may result in an increased potential for injury to succeeding crops. Do not grow LibertyLink® or Roundup Ready® canola the year after application of **Ninja Master**.

Always read and follow all label precautions and directions.

\*When applying tank mix combinations, always follow all label requirements for each product used in the tank mix. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

Independence® and Ninja® are trademarks of AgraCity or its affiliates. All other products are trademarks of their respective holders.

# QUIZ® HERBICIDE

**SAME ACTIVE AS ASSURE™**  
**Quizalofop Herbicide**

## WHY USE QUIZ?

- Same active as Assure
- Outstanding wild oat and grass weed control
- Controls or suppresses 12 grass weeds
- Improved control of foxtail barley, Japanese brome, and quackgrass (spring seedlings)
- Use in all soil zones
- Use on canola, pulse crops, flax and numerous other crops
- Systemic mode of action for dependable control
- Wide window of application
- Excellent crop safety
- Numerous tank mix options
- No re-cropping restrictions
- Excellent wild oat and grass weed control for an affordable price

## FOR USE ON

- Alsike clover, camelina, canola, chickpeas, common dry beans, crambe, creeping red fescue, cucurbit vegetables, fababeans, flax, hemp, lentils, lupins, mustards (oriental, brown), carinata, peas, red clover, seedling legumes (seed production) snap beans, soybeans, sugar beets
- See product label for complete list of registered crops



## WEEDS CONTROLLED

200 ml/acre rate:

- Barnyard grass (2 leaf to early tillering)
- Green foxtail (2 leaf to early tillering)
- Fall panicum (2 leaf to early tillering)
- Foxtail barley<sup>1</sup> (3-4 leaf + 3 tillers)
- Japanese brome<sup>1</sup> (2-5 leaf stage)
- Old witchgrass (2 leaf to early tillering)
- Proso millet (2 leaf to early tillering)
- Quackgrass<sup>1</sup> (suppression) (2-6 leaf)
- Wild oats (1-5 leaf, up to 2 tillers)
- Volunteer cereals (2 leaf to early tillering)
- Volunteer corn (2-6 leaf)
- Yellow foxtail (2 leaf to early tillering)

300 ml/acre rate:

(including weeds controlled at 200 ml/acre rate)

- Quackgrass<sup>1</sup> (2-6 leaf)

<sup>1</sup> Spring seedlings only. Quiz will not control established plants or plants beyond the 6-leaf stage.





# QUIZ HERBICIDE

SAME ACTIVE AS ASSURE

## REQUIRED SURFACTANT

- Merge® at 5–10 L per 1,000 L spray solution or Sure-Mix™ at 5 L per 1,000 L spray solution

## ACTIVE INGREDIENT

- Quizalofop 96 g/L, emulsifiable concentrate

## RATES AND PACKAGING

(at 200 mL/acre rate)

- **Case:** 2 x 8 L jug treats 80 acres
- **Bulk:**  
96 L drum treats 780 acres  
500 L tote treats 2,500 acres

## WHEN TO APPLY

- **Crop stage:** No crop staging restrictions
- **Weed stage:** 2 leaf to early tiller unless otherwise indicated

## WATER VOLUME

- 10 US gallons/acre (40 L/acre)

## RAINFAST PERIOD

- 1 hour

## RE-CROPPING OPTIONS

- Seed to all major crops the year after application

## TANK MIX OPTIONS\*

- **Boa®†, Boa® Pro†, Ninja®†, Samurai®†, Disruptor® 360 or 540†, Destroyer® 540†**, (RR canola & RR soybeans), **MPower® Pro†, Victus™†**, Ally®† (fescue only), Ares® (Clearfield® canola), Pinnacle®, Reliance™ STS™
- Consult the product label for a complete list of crop specific tank mixes, application rates, and use guidelines

## STORAGE

- Do not freeze. If product is frozen, gently warm to room temperature and shake well before using

## GRAZING AND HARVEST

- Do not graze treated fields or harvest for forage or hay.

### PRE-HARVEST AND GRAZING INTERVALS IN DAYS

CROP	PHI	CROP	PHI	CROP	PHI
Chickpeas	85	Lentils	65	Seedling alfalfa	30
Canola	64	Field peas	65	Soybeans	80
Dry beans	30	Flax	82		

Always read and follow all label precautions and directions.

\*When applying tank mix combinations, always follow all label requirements for each product used in the tank mix. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

†Supported by AgraCity. For a complete list of tank mix options, go to [AgraCity.com/Solutions](http://AgraCity.com/Solutions).

Boa®, Destroyer®, Disruptor®, Victus™, Ninja®, Quiz®, and Samurai® are trademarks of AgraCity or its affiliates. All other products are trademarks of their respective holders.

## MIXING INSTRUCTIONS

1. Fill the spray tank 1/2 full of water, start agitation and continue agitation throughout mixing and application.
2. If required, add dry formulation tank mix partners first.
3. If required, add liquid formulation tank mix partners.
4. Add correct amount of **Quiz**, followed by correct amount of surfactant.
5. Complete filling of spray tank, apply product, and continue application until the tank is empty.
6. If application is stopped prior to completion, re-suspend spray solution by full agitation prior to commencing spraying again.

## UNDERSTANDING PERFORMANCE

- Optimal control occurs when applied between 12°C and 24°C in warm moist growing conditions when weeds are small and actively growing.
- Use the higher rate of surfactant when wild oats or quackgrass are the main target weeds, or under conditions not conducive to good growth.
- Typical symptoms (discoloration) of dying weeds may not be visible for several days to 1-2 weeks after application, depending on the grass species and growing conditions. Control of weeds may take 3-4 weeks.
- Control will be reduced if weeds are stressed due to drought, extreme cold or hot temperatures, or if there is improper mixing, application timing, or poor coverage.
- Do not mix **Quiz** with products containing MCPA as this may result in antagonism.

# SAMURAI® HERBICIDE

**SAME ACTIVE AS SOLO®**  
**Imazamox Herbicide**

## WHY USE SAMURAI?

- Same active as Solo
- Outstanding control of green smartweed, redroot pigweed, stinkweed, and wild mustard
- Controls or suppresses 20 grass and broadleaf weeds
- Use in all soil zones
- Systemic mode of action for dependable control
- Early application timing for optimum yield potential
- Improved rotational crop flexibility as compared to other Group 2 pulse products
- Low use rate, easy to use
- Effective one-pass weed control in peas at an affordable price

## FOR USE ON

- Field peas



## WEEDS

### CONTROLLED

Up to 4 leaf stage:

- |                                |                                       |
|--------------------------------|---------------------------------------|
| • Barnyard grass               | • Stinkweed <sup>2</sup>              |
| • Cow cockle                   | • Volunteer barley                    |
| • Green foxtail                | • Volunteer canola <sup>3</sup>       |
| • Green smartweed              | • Volunteer durum wheat               |
| • Lamb's-quarters <sup>1</sup> | • Volunteer spring wheat <sup>3</sup> |
| • Redroot pigweed              | • Volunteer tame oats                 |
| • Russian thistle              | • Wild mustard <sup>2</sup>           |
| • Shepherd's purse             | • Wild oats <sup>2</sup>              |

### SUPPRESSED

- Cleavers<sup>2</sup>
- Japanese brome grass
- Round-leaved mallow
- Wild buckwheat

<sup>1</sup> 85% control only. Fields with heavy infestations or poor growing conditions at time of application will see weed escapes.

<sup>2</sup> Not including Group 2 resistant biotypes

<sup>3</sup> Not including Clearfield® varieties



**SAMURAI** HERBICIDE

SAME ACTIVE AS SOLO

**REQUIRED SURFACTANT**

- **Assassin® II** or **Merge®** at 5 L per 1,000 L of water

**ACTIVE INGREDIENT**

- Imazamox 70% water dispersible granule (WDG)

**PACKAGE SIZE**

- **Case:** 40 acres

**WHEN TO APPLY**

- **Crop stage:** 2 to 6 true leaf stage  
CL Lentils: 2 to 6 leaf stage  
Peas: 1 to 6 true leaf stage
- **Weed stage:** Up to the 4-leaf stage

**WATER VOLUME**

- 10 US gal/acre (40 L/acre))

**RAINFAST PERIOD**

- 3 hours

**RE-CROPPING OPTIONS**

- **1 year after application:** Field peas, canola<sup>o</sup>, spring wheat, durum wheat, barley, tame oats, flax, Clearfield® sunflowers<sup>†</sup>.
- There is insufficient data for other crops. Conduct a field bioassay the year before growing any crop other than those listed above.

**TANK MIX OPTIONS\***

- **Boa®**, **Independence®†**, **Quiz®†**

**STORAGE**

- Keep from freezing. Store above 5°C

**GRAZING AND HARVEST**

- Graze treated fields or cut for feed 20 days after application
- Harvest treated crops 60 days of application

<sup>o</sup>Initial injury to non-Clearfield® canola may be observed.

<sup>†</sup>Sunflower varieties with the Clearfield® trait.

**MIXING INSTRUCTIONS**

1. Fill the spray tank 1/2 full of water, start sprayer agitation and continue throughout mixing and application process.
2. Add the required amount of **Samurai** and agitate until dissolved.
3. If required, add correct amount of tank mix partners.
4. Add the required amount of surfactant.
5. Fill the remainder of the tank with water and apply.
6. If application is stopped prior to completion, re-suspend spray solution by full agitation prior to commencing spraying again.

**UNDERSTANDING PERFORMANCE**

- Optimal control occurs when applied between 12°C and 24°C during warm moist growing conditions when weeds are small and actively growing.
- Typical symptoms (discoloration at the growing point) may not be noticeable for several days – 2 weeks depending on growing conditions.
- Early application is critical; weeds must be emerged but less than 4 leaf stage for optimum control.
- Use higher water volumes for dense weed populations and thick crop canopies.
- Do not apply if temperatures of +5°C or lower are forecast within 3 days of application. Application just before or after cold temperatures can result in crop injury or yellowing.
- Control will be reduced, or crop injury may occur if plants are stressed by lack of moisture, excessive moisture, poor fertility, cold temperatures or other crop stress factors.
- Samurai can be persistent in soil. Drought, extremes in soil pH and excessive cold may result in an increased potential for injury to succeeding crops.

Always read and follow all label precautions and directions.

\*When applying tank mix combinations, always follow all label requirements for each product used in the tank mix. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

<sup>†</sup>Supported by AgraCity. For a complete list of tank mix options, go to [AgraCity.com/Solutions](http://AgraCity.com/Solutions).

Assassin®, Boa®, Independence®, Quiz® and Samurai® are trademarks of AgraCity or its affiliates. All other products are trademarks of their respective holders.

# SAMURAI® MASTER HERBICIDE

**AGRACITY EXCLUSIVE PRODUCT**  
**Imazamox + Clethodim Herbicide**

## WHY USE SAMURAI MASTER?

- AgraCity Exclusive Product - contains 2 active ingredients for proven grass and broadleaf weed control, including control of Group 2 resistant wild oats and green foxtail, with less residual
- Proven control of green smartweed, redroot pigweed, stinkweed, and wild mustard
- Controls or suppresses 24 grass and broadleaf weeds
- Use in all soil zones
- Two systemic modes of action for dependable control
- Early application timing for optimum yield potential
- Improved rotational crop flexibility as compared to other Group 2 pulse products
- Easy to use with highly concentrated formulation
- Effective one-pass weed control in peas at an affordable price.

## FOR USE ON

- Field peas



## WEEDS

### CONTROLLED

- Barnyard grass
- Cow cockle
- Green foxtail
- Green smartweed
- Fall panicum
- Lamb's-quarters<sup>1</sup>
- Proso millet
- Redroot pigweed
- Russian thistle
- Shepherd's purse
- Stinkweed<sup>2</sup>
- Volunteer canary grass
- Volunteer canola<sup>3</sup>
- Volunteer cereals
- Volunteer corn
- Wild mustard<sup>2</sup>
- Wild oats
- Witchgrass
- Yellow foxtail

### SUPPRESSED

- Cleavers<sup>2</sup>
- Japanese brome grass
- Round-leaved mallow
- Wild buckwheat
- Quackgrass

<sup>1</sup> 85% control only. Fields with heavy infestations or poor growing conditions at time of application will see weed escapes.

<sup>2</sup> Not including Group 2 resistant biotypes

<sup>3</sup> Only non-Clearfield® varieties



**SAMURAI MASTER** HERBICIDE

AGRICITY EXCLUSIVE PRODUCT

**REQUIRED SURFACTANT**

- Merge® at 5 L per 1,000 L of water

**ACTIVE INGREDIENT**

- Imazamox 70% water dispersible granule (WDG)
- Clethodim 240 g/L emulsifiable concentrate (EC)

**PACKAGE SIZE**

- Case: 160 acres

**WHEN TO APPLY**

- **Crop stage:** 2 to 6 true leaf stage
- **Weed stage:** up to the 4-leaf stage

**WATER VOLUME**

- 5-10 US gallons/acre (20-40 L/acre)

**RAINFAST PERIOD**

- 3 hours

**RE-CROPPING OPTIONS**

- **1 year after application:** Field peas, canola®, spring wheat, durum wheat, spring barley, tame oats, flax, Clearfield® sunflowers\*\*
- There is insufficient data for other crops. Conduct a field bioassay the year before growing any crop other than those listed above

**TANK MIX OPTIONS\***

- Boa®†

**STORAGE**

- Keep from freezing. Store above 5°C

**GRAZING AND HARVEST**

- Graze treated fields or cut for feed 20 days after application
- Harvest treated crops 75 days after application

†Initial injury to non-Clearfield® canola may be observed

\*\*Sunflower varieties with the Clearfield® trait

**MIXING INSTRUCTIONS**

1. Fill the spray tank 1/2 full of water, start sprayer agitation and continue throughout mixing and application process.
2. Add the required amount of **Samurai** and agitate until dissolved.
3. Add the required amount of **Independence®**.
4. If required, add correct amount of other tank mix partners.
5. Add the required amount of surfactant.
6. Fill the remainder of the tank with water and apply.
7. If application is stopped prior to completion, re-suspend spray solution by full agitation prior to commencing spraying again.

**UNDERSTANDING PERFORMANCE**

- Optimal control occurs when applied between 12°C and 24°C during warm moist growing conditions when weeds are small and actively growing.
- Typical symptoms (discoloration at the growing point) may not be noticeable for several days – 2 weeks depending on growing conditions.
- Early application is critical; weeds must be emerged but less than 4 leaf stage for optimum control.
- Use higher water volumes for dense weed populations and thick crop canopies.
- Do not apply if temperatures of +5°C or lower are forecast within 3 days of application. Application just before or after cold temperatures can result in crop injury or yellowing.
- Control will be reduced, or crop injury may occur if plants are stressed by lack of moisture, excessive moisture, poor fertility, cold temperatures or other crop stress factors.
- Samurai can be persistent in soil. Drought, extremes in soil pH and excessive cold may result in an increased potential for injury to succeeding crops.

Always read and follow all label precautions and directions.

\*When applying tank mix combinations, always follow all label requirements for each product used in the tank mix. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

†Supported by AgraCity. For a complete list of tank mix options, go to [AgraCity.com/Solutions](http://AgraCity.com/Solutions).

Boa®, Independence® and Samurai® are trademarks of AgraCity or its affiliates. All other products are trademarks of their respective holders.

# FUSARO™ FUNGICIDE

GROUP  
3

**SAME ACTIVES AS PROSARO®**  
**Prothioconazole + Tebuconazole Fungicide**

## WHY USE FUSARO?

- Excellent protection from fusarium head blight
- Tank-mixable with foliar products
- Multi-mode of action
- Excellent value and price with no programming
- Two different systemic active ingredients
- Broad spectrum leaf disease control
- Preventative and curative properties
- Protects grade and quality while increasing yield

## FOR USE ON

- Spring wheat, durum wheat, winter wheat and barley



## DISEASES CONTROLLED

### Spring wheat, durum and winter wheat

- Rusts (leaf, stem and stripe)
- Septoria leaf and glume blotches
- Tab spot
- Powdery mildew

### Barley

- Rusts (leaf, stem and Stripe)
- Septoria (net, leaf and spot blotch)
- Scald
- Powdery mildew

## DISEASES SUPPRESSED

### Spring wheat, durum and winter wheat

- Fusarium head blight





**FUSARO** FUNGICIDE

SAME ACTIVE AS PROSARO

**REQUIRED SURFACTANT**

- None required

**ACTIVE INGREDIENTS**

- Prothioconazole 125 g/L (EC)
- Tebuconazole 125 g/L (EC)

**PACKAGE SIZE**

- **Case:** 2 x 13 litre
- **Bulk:** 104 litre drum and 625 litre tote

**APPLICATION TIMING (CROP)**

- **Wheat: spring, durum, winter**

Fusarium head blight: within the time-period when 75% of wheat heads are fully emerged to when 50% of heads on the main stems are in flower. This timing will also control the listed leaf diseases

- **Barley**

Fusarium head blight apply between 70% and 100% full head emergence on the main stem up until 3 days after. This timing will also control the listed leaf diseases

**WATER VOLUME**

- **Ground:** Minimum 10 US gallons/acre (40 L/acre)
- **Aerial:** Minimum 5 US gallons/acre (20L/acre)

**RAINFEST PERIOD**

- 1 hour

**RE-CROPPING OPTIONS**

- Grow all major crops the year after application.

**TANK MIX OPTIONS**

- None

**STORAGE**

- Do not freeze. Store in a cool, dry, locked, well-ventilated area without a floor drain. Shake well before use.

**GRAZING AND HARVEST**

- Allow 5 days after application before cutting hay or harvesting forage.
- Mature crop may be harvested 36 days after application.

**MIXING INSTRUCTIONS**

1. Fill the spray tank 1/2 full of water and begin agitation.
2. Add the required quantity of **Fusaro** fungicide to the water and complete filling with water to the required total volume.
3. Maintain agitation throughout mixing and spraying.
4. If application is stopped prior to completion, re-suspend spray solution by full agitation prior to commencing spraying again.
5. Clean out sprayer equipment thoroughly after application is complete.

**UNDERSTANDING PERFORMANCE**

- Consult the product label for application rates and water volumes for all crops and diseases.
- Fusarium head blight risk is greater when the weather is warm and wet at the flowering to soft dough stages. Consult the provincial disease risk maps.
- **Fusaro** fungicide has preventative and curative properties but works best if applied at the onset of disease.
- Good coverage is essential for effective disease control.
- For fusarium head blight, ensure thorough coverage of all wheat heads for optimal suppression. Improved spray coverage of heads may be achieved by using nozzles designed to spray in two directions.
- Do not apply **Fusaro** more than once per crop season. Avoid applying multiple fungicides within the same group during the same crop year to delay the development of resistance.

Always read and follow all label precautions and directions.

\*When applying tank mix combinations, always follow all label requirements for each product used in the tank mix. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

<sup>†</sup>Supported by AgraCity.

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# MODO FUNGICIDE

GROUP  
3

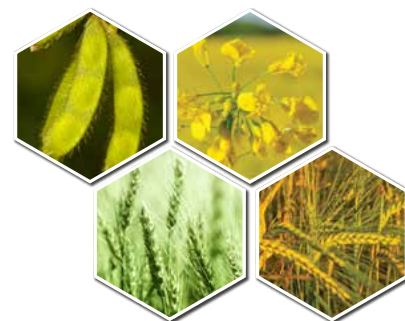
**SAME ACTIVE AS TILT®**  
**Propiconazole Fungicide**

## WHY USE MODO?

- Same active as Tilt
- Proven control of key diseases in many crops
- Provides preventative and systemic fungicide activity
- Use in all soil zones
- Tank mix options with herbicides, insecticides, and many foliar nutrients
- Proven disease control at an affordable price

## FOR USE ON

- Wheat (spring, winter, durum), barley, oats, canary seed, canola, corn, dry beans, lentils, field peas soybeans, timothy, cranberries, Kentucky bluegrass (seed production), blueberries (low and high bush), rutabagas, Saskatoon berry, stone fruit, plums, sour cherries, western red cedar, asparagus, cranberries, strawberries, chickpeas.



## DISEASES CONTROLLED

(see label for complete list of crops and rates)

CROP	DISEASE CONTROLLED	APPLICATION RATE
Wheat	Septoria leaf spot and glume blotch, powdery mildew, leaf and stem rust, tan spot, stipe rust	200 ml/acre
Barley	Net blotch, spot blotch, scald, powdery mildew, septoria leaf spot, leaf and stem rust	200 ml/acre
Oats	Septoria leaf blotch, crown rust	200 ml/acre
Canary seed	Septoria leaf mottle	200 ml/acre
Timothy	Purple eyespot	200 ml/acre
Canola	Blackleg	200 ml/acre
Corn	Rusts, eye spot, grey leaf spot	200 ml/acre
	Northern corn leaf blight, Southern corn leaf blight, helminthosporium leaf spot	100-200 ml/acre
Soybeans	Asian (soybean) rust	200-300 ml/acre
	Powdery mildew, cercospora leaf spot	200 ml/acre
Dry beans, lentil, field pea	Asian (soybean) rust	200-300 ml/acre
	Powdery mildew	200 ml/acre



**MODO** FUNGICIDE

SAME ACTIVE AS TILT

**REQUIRED SURFACTANT**

- None required

**ACTIVE INGREDIENT**

- Propiconazole 250 g/L emulsifiable concentrate (EC)

**PACKAGE SIZE**

- **Case:** 2 x 8.1 L (acres treated depends on application rate)
- **Bulk:** 97 L drum

**APPLICATION TIMING**

- Apply at the first sign of disease. A second application at 14 days interval may be needed if conditions persist.

**WATER VOLUME**

- **Ground:** Minimum 20 US gallons/acre (80 L/ac)
- **Aerial:** Minimum 4 US gallons/acre (16 L/ac)

**RAINFEST PERIOD**

- 1 hour

**RE-CROPPING OPTIONS**

- Grow all major crops the year after application

**SUPPORTED TANK MIXES\***

- **Aurora<sup>®</sup>, Aurora<sup>®</sup> Extreme, Ammo<sup>®</sup> DR<sup>†</sup>, Battlestar<sup>®†</sup> II, Canuck<sup>®†</sup>, Clobber<sup>®</sup> M<sup>†</sup>, Deathstar<sup>™†</sup>, Disruptor<sup>®</sup> or Destroyer<sup>®</sup> glyphosate<sup>†</sup>, Foxy<sup>®</sup> Canuck<sup>®†</sup>, Foxy<sup>®</sup> CM<sup>†</sup>, Foxy<sup>®</sup> CRX<sup>†</sup>, Foxy<sup>®</sup> M<sup>†</sup>, Foxy<sup>®</sup> MR<sup>†</sup>, Foxy<sup>®</sup> Pro<sup>†</sup>, Foxy<sup>®</sup> Pro RX<sup>†</sup>, Foxy<sup>®</sup> R<sup>†</sup>, Foxy<sup>®</sup> RCK<sup>†</sup>, HellCat<sup>®†</sup>, Himalaya<sup>®†</sup>, Independence<sup>®†</sup>, Victus<sup>™†</sup>, Quasi, Quiz<sup>®†</sup>, Axial<sup>®†</sup>, Decis<sup>®†</sup>, Matador<sup>®†</sup>, MCPA Amine, Pardner<sup>®</sup>**
- See label for registered crops and rates

**STORAGE**

- Do not freeze. Store product away from food or feed.

**GRAZING AND HARVEST**

- Do not graze animals on treated green crops within three days of application

**PRE-HARVEST INTERVAL  
(SEE LABEL FOR COMPLETE LISTING)**

- **Wheat, barley, oats:** 45 days
- **Canola:** 60 days
- **Corn, timothy:** 14 days
- **Soybeans, peas, lentils, dry beans:** 30 days

**MIXING INSTRUCTIONS**

1. Fill the spray tank 1/2 full of water, start sprayer agitation, and continue agitation throughout mixing and spraying process.
2. Add the required amount of any tank mix partners, if required.
3. Add required amount of **Modo** to the tank, complete filling the tank, and apply.
4. If application is stopped prior to completion, re-suspend spray solution by full agitation prior to commencing spraying again.
5. Clean out sprayer equipment thoroughly after application is complete.

**UNDERSTANDING PERFORMANCE**

- Consult the product label for uses, application rates and water volumes for all crops and diseases.
- **Modo** fungicide is preventative in nature. The best disease control will be achieved when applied prior to disease establishment.
- **Modo** fungicide lasts about three weeks in the plant. If conditions favourable to disease continue after this length of time, another application will be necessary to maintain control.
- Good coverage is essential for effective disease control. Use higher water volumes with denser crop canopies.
- Use **Modo** fungicide as part of an integrated disease management strategy, including resistant crop varieties, crop rotation, and plant residue management. Rotate fungicide groups whenever possible to prevent resistance. Do not apply more than 2 applications of **Modo** or products containing propiconazole per season.

Always read and follow all label precautions and directions.

\*When applying tank mix combinations, always follow all label requirements for each product used in the tank mix. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

<sup>†</sup>Supported by AgraCity.

Ammo<sup>®</sup>, Aurora<sup>®</sup>, Battlestar<sup>®</sup>, Canuck<sup>®</sup>, Clobber<sup>®</sup>, Deathstar<sup>™</sup>, Destroyer<sup>®</sup>, Disruptor<sup>®</sup>, Foxy<sup>®</sup>, HellCat<sup>®</sup>, Independence<sup>®</sup>, Himalaya<sup>®</sup>, MPower<sup>®</sup>, Victus<sup>™</sup> and Quiz<sup>®</sup> are trademarks of AgraCity or its affiliates. All other products are trademarks of their respective holders.

# QUASI FUNGICIDE

GROUP  
11

**SAME ACTIVE AS QUADRIS®**  
**Azoxystrobin Fungicide**

## WHY USE QUASI?

- Same active as Quadris
- Proven control of key diseases in canola and potatoes
- Provides preventative and systemic fungicide activity
- Improves overall plant health
- Use in all soil zones
- Tank mix with foliar nutrients and other foliar fungicides
- Proven disease control at an affordable price

## FOR USE ON

- Canola and potatoes



## DISEASES CONTROLLED AND APPLICATION RATES

(see label for complete list of crops and rates)

CROP	DISEASE CONTROLLED	APPLICATION RATE
In canola	Sclerotinia stem rot	400 ml/acre
In potatoes	Early blight, black dot	200-320 ml/acre
In potatoes	Late blight	320 ml/acre
In potatoes (in furrow application):	Silver scurf, rhizoctonia stem canker, rhizoctonia stolon canker, black scurf	4-6 ml product/100 m row



**QUASI FUNGICIDE**

SAME ACTIVE AS QUADRIS

**REQUIRED SURFACTANT**

- None required

**ACTIVE INGREDIENT**

- Azoxystrobin 250 g/L suspension concentrate (SC)

**PACKAGE SIZE**

- **Case:** 2 x 8 L
- **Bulk:** 100 L drum, 1,000 L tote

**APPLICATION TIMING (CROP)**

- **Canola:**  
**Sclerotinia:** Apply at early bloom (prior to 30% flower)
- **Potatoes:** Prior to disease establishment  
For soilborne diseases, apply in furrow

**WATER VOLUME**

- See label for instructions by crop and disease.
- Ground: minimum 10 US gallons/acre (40 L/ac), except potatoes in furrow (20-56 L/ac), seed corn (80 L/ac)
- Aerial: minimum 5 US gallons/acre (20 L/acre). (Do not apply to seed corn or potato by air.

**RAINFAST PERIOD**

- 1 hour

**RE-CROPPING OPTIONS**

- Grow all major crops the year after application

**TANK MIX OPTIONS\***

- **Potato:** Bravo® 500, Ridomil Gold® 480 SL or Ridomil Gold® 480 EC, Actara® 240SC
- See label for additional diseases and insects controlled when tank mixed.

**STORAGE**

- Do not freeze. Store in a cool, dry, locked, well-ventilated area without a floor drain.

**GRAZING AND HARVEST**

- Do not feed alfalfa hay or forage to livestock. All other crops can be grazed or fed to livestock.
- Do not graze treated corn crops within 6 days of last application.

**PRE-HARVEST INTERVAL  
(SEE LABEL FOR COMPLETE LISTING)**

- Canola - 30 days after application

**MIXING INSTRUCTIONS**

1. Fill the spray tank 1/2 full of water, start sprayer agitation, and continue agitation throughout mixing and spraying process.
2. Add the required amount of any WG or DF formulation tank mix partner if needed.
3. Add required amount of **Quasi** to the tank.
4. Add any EC formulation tank mix partners to the tank if needed, finish filling the tank with water, and apply product.
5. If application is stopped prior to completion, re-suspend spray solution by full agitation prior to commencing spraying again.
6. Clean out sprayer equipment thoroughly after application is complete.

**UNDERSTANDING PERFORMANCE**

- Consult the product label for uses, application rates and water volumes for all crops and diseases.
- **Quasi** fungicide is preventative in nature. The best disease control will be achieved when applied prior to disease establishment.
- Good coverage is essential for effective disease control. Use higher water volumes with denser crop canopies.
- Use **Quasi** fungicide as part of an integrated disease management strategy, including resistant crop varieties, crop rotation, and plant residue management. Rotate fungicide groups whenever possible to prevent resistance.
- Do not apply more than 2 applications of **Quasi** per season.

Always read and follow all label precautions and directions.

\*When applying tank mix combinations, always follow all label requirements for each product used in the tank mix. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

All products mentioned are trademarks of their respective holders.

# RAMBLER® FUNGICIDE

**SAME ACTIVE AS PROLINE®  
PROTHIOCONAZOLE HERBICIDE**

## TECHNICAL BULLETIN FOR INFORMATION PURPOSES ONLY

It is anticipated the regulatory decision on RAMBLER FUNGICIDE will be made by April 15, 2023.

This product is currently being assessed for registration under the Pest Control Products Act. It cannot be manufactured, imported, distributed, or used in Canada at this time, unless explicit authorization has been obtained from Health Canada to use this product for the purpose of conducting research under the Pest Control Products Regulations.

### WHY USE RAMBLER?

- Same active as Proline
- Proven control of sclerotinia stem rot
- #1 selling active ingredient for sclerotinia in canola
- Quality disease control of numerous diseases in numerous crops
- Multi-crop registrations and many more diseases
- High concentration formulation for efficient application
- Systemic activity allowing for early application
- Bulk packaging offer

### FOR USE ON

- Canola, wheat (spring, durum and winter), barley, oats, flax, chickpeas, lentils, soybeans, corn, sunflower



### DISEASES CONTROLLED AND APPLICATION RATES

(see label for complete list of crops and rates)

CROP	DISEASE CONTROLLED	APPLICATION RATE
Canola	Sclerotinia stem rot	128-149 ml/acre
Wheat	Suppression: Fusarium	128-170 ml/acre
Wheat	Control: Tan spot, leaf rust, speckled leaf blotch	85-128 ml/acre
Barley	Suppression: Fusarium	128-170 ml/acre
Barley	Control: Net blotch, scald, spot blotch	85-128 ml/acre
Oats	Control: Crown rust	128 ml/acre
Chickpeas	Control: Ascochyta blight	128-170 ml/acre
Chickpeas	Suppression: Grey mold	170 ml/acre
Lentils	Control: Ascochyta blight, white mold	128-170 ml/acre
Lentils	Suppression: Anthracnose	128-170 ml/acre
Lentils	Suppression: Grey mold	170 ml/acre
Soybean	Control: Asian soybean rust, frogeye leaf spot	85 ml/acre
Corn	Control: Rusts, eyespot, northern blight	127 ml/acre
Corn	Control: Grey leaf spot	170 ml/acre
Corn	Suppression: Fusarium, gibberella ear rots	170 ml/acre





**RAMBLER** FUNGICIDE

SAME ACTIVE AS PROLINE

**REQUIRED SURFACTANT**

- None required however 0.25% non-ionic may be tank-mixed

**ACTIVE INGREDIENT**

- Prothioconazole 480 g/L Suspension

**PACKAGE SIZES:**

- **Case:** 1 x 10 L
- **Bulk:** 120 L

**APPLICATION TIMING**

- **Canola:**  
**Sclerotinia:** Apply when the crop is in the 20-30% bloom stage
- **Wheat, barley, oats**  
**Fusarium in wheat:** within the time-period when 75% of wheat heads are fully emerged to when 50% of heads on the main stems are in flower. This timing will also control the listed leaf diseases  
**Fusarium in barley:** apply between 70% and 100% full head emergence on the main stem up until 3 days after. This timing will also control the listed leaf diseases  
**Leaf diseases:** Apply as a preventive foliar spray when the earliest disease symptoms appear on the leaves and stems.
- **Pulse Crops:**  
Apply when first symptoms of disease can be found or when the risk of infection is imminent.
- **Corn:**  
**Leaf diseases:** Apply as a preventive foliar spray when the earliest disease symptoms appear on the leaves and stems  
**Fusarium:** Apply from the development stage of corn from when the tip of stigmata is visible until stigmata drying.

**WATER VOLUME**

- **Ground:** Minimum 10 US gallons/ac (40 L/ac)
- **Aerial:** Minimum 5 US gallons/ac (20 L/ac)

**RAINFEST PERIOD**

- 1 hour

**RE-CROPPING OPTIONS**

- Grow all major crops the year after application

**TANK MIX OPTIONS\***

- Refer to label for additional diseases and insects controlled when tank mixed.

**MIXING INSTRUCTIONS**

1. Add one-half of the required amount of water to the spray or mixing tank and start agitation.
2. Add the required quantity of **Rambler** to the water and complete filling with water to the required total volume.
3. Maintain agitation throughout mixing and spraying.
4. Add the required amount of surfactant
5. Complete filling the tank with the balance of water and apply
6. If application is stopped prior to completion, re-suspend spray solution by full agitation prior to commencing spraying again.

**UNDERSTANDING PERFORMANCE**

- Consult the product label for application rates and water volumes for all crops and diseases.
- Fusarium head blight risk is greater when the weather is warm and wet at the flowering to soft dough stages. Consult the provincial disease risk maps.
- Good coverage is essential for effective disease control.
- For fusarium head blight, ensure thorough coverage of all wheat heads for optimal suppression. Improved spray coverage of heads may be achieved by using nozzles designed to spray in two directions.
- Do not apply **Rambler** more than twice per crop season.

**GRAZING AND HARVEST**

Pre-harvest interval (days)

Wheat, barley, oats	30
Canola	36
Corn	14
Chickpea, Lentil	7
Soybean	20

Always read and follow all label precautions and directions.

\*When applying tank mix combinations, always follow all label requirements for each product used in the tank mix. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

†Supported by AgraCity.

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# RAMBLER® PRO FUNGICIDE

**AGRACITY EXCLUSIVE PRODUCT**  
**Azoxystrobin + Prothioconazole Fungicide**

## TECHNICAL BULLETIN

### FOR INFORMATION PURPOSES ONLY

It is anticipated the regulatory decision on RAMBLER PRO FUNGICIDE will be made by April 15, 2023.

This product is currently being assessed for registration under the Pest Control Products Act. It cannot be manufactured, imported, distributed, or used in Canada at this time, unless explicit authorization has been obtained from Health Canada to use this product for the purpose of conducting research under the Pest Control Products Regulations.

#### WHY USE RAMBLER PRO?

- Provides premium sclerotinia control at an affordable price.
- Multi mode of action
- Contains prothioconazole the #1 selling active ingredient for sclerotinia in canola
- Both systemic and contact
- Premium control for a reasonable price

#### FOR USE ON

- Canola



#### DISEASES CONTROLLED AND APPLICATION RATES

CROP	DISEASE CONTROLLED	APPLICATION RATE
Canola	Sclerotinia stem rot	128-149 ml/ac



**RAMBLER PRO** FUNGICIDE

SAME ACTIVE AS PROLINE GOLD

**REQUIRED SURFACTANT**

- No surfactant required.

**ACTIVE INGREDIENT**

- Azoxystrobin 250 g/L suspension concentrate (SC)
- Prothioconazole 480 g/L suspension

**PACKAGE SIZES:**

- **Case:** 14.6 L azoxystrobin + 9 L prothioconazole

**APPLICATION TIMING**

- **Canola:**  
Sclerotinia: Apply at early bloom (20-30%)

**WATER VOLUME**

- **Ground:** Minimum 10 US gallons/ac (40 L/ac)
- **Aerial:** Minimum 5 US gallons/ac (20 L/ac)

**RAINFAST PERIOD**

- 1 hour

**RE-CROPPING OPTIONS**

- Grow all major crops the year after application

**TANK MIX OPTIONS\***

- Refer to label for additional diseases and insects controlled when tank mixed.

**STORAGE**

- Do not freeze. Store in a cool, dry, locked, well ventilated area without a floor drain.

**GRAZING AND HARVEST**

- **Pre-harvest interval (days)**  
**Canola:** 36

**MIXING INSTRUCTIONS**

1. Add one-half of the required amount of water to the spray or mixing tank and start agitation.
2. Add the required quantity of **Rambler Pro** to the water and complete filling with water to the required total volume.
3. Maintain agitation throughout mixing and spraying.
4. Add the required amount of surfactant
5. Complete filling the tank with the balance of water and apply
6. If application is stopped prior to completion, re-suspend spray solution by full agitation prior to commencing spraying again.

**UNDERSTANDING PERFORMANCE**

- Consult the product label for application rates and water volumes.
- Good coverage is essential for effective disease control.
- Use **Rambler Pro** as part of an integrated disease management strategy including resistant crop varieties, crop rotation, and plant residue management. Rotate fungicide groups whenever possible to prevent resistance.
- Do not apply **Rambler Pro** more than twice per crop season.

Always read and follow all label precautions and directions.

\*When applying tank mix combinations, always follow all label requirements for each product used in the tank mix. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

<sup>†</sup>Supported by AgraCity.

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# REVENUE® Q FUNGICIDE

GROUP  
3,11

**SAME ACTIVE AS QUADRIS TOP®**

**Difenoconazole + Azoxystrobin Fungicide**

## TECHNICAL BULLETIN

### FOR INFORMATION PURPOSES ONLY

It is anticipated the regulatory decision on REVENUE Q FUNGICIDE will be made by April 15, 2023.

This product is currently being assessed for registration under the Pest Control Products Act. It cannot be manufactured, imported, distributed, or used in Canada at this time, unless explicit authorization has been obtained from Health Canada to use this product for the purpose of conducting research under the Pest Control Products Regulations.

#### WHY USE REVENUE Q?

- Same actives as Quadris Top
- Two mode of action control of early blight
- Tank-mix flexibility
- Early application

#### FOR USE ON

- Potatoes



#### DISEASES CONTROLLED

CROP	DISEASE CONTROLLED
Potatoes	Early blight



**REVENUE Q FUNGICIDE**

SAME ACTIVES AS QUADRI TOP

**REQUIRED SURFACTANT**

- None required

**ACTIVE INGREDIENT**

- Azoxystrobin 250 g/L suspension
- Difenconazole 250 g/L emulsifiable concentrate (EC)

**PACKAGE SIZES:**

- **Case:** 14.8 L azoxystrobin + 9.3 L difenconazole

**APPLICATION TIMING**

- Potato
- Apply at first sign of disease or when conditions are conducive to disease development.

**WATER VOLUME**

- **Ground:** Minimum 16 US gallons/ac (60 L/ac)
- **Aerial:** Minimum 5 US gallons/ac (18.27 L/ac) – for potatoes only

**RAINFAST PERIOD**

- 1 hour

**RE-CROPPING OPTIONS**

- Grow all major crops the year after application.

**TANK MIX OPTIONS\***

- Revis®, Bravo® 500, Bravo 720 or Bravo ZN, Allegro® 500F, Matador®, Actara®

**STORAGE**

- Store in a cool dry place away from food and animal feed.

**GRAZING AND HARVEST**

- Do not apply within 14 days of harvest

**MIXING INSTRUCTIONS**

1. Add one-half of the required amount of water to the spray or mixing tank and start agitation.
2. Add the required amount **Quasi** to the water
3. Add the required quantity of **Revenue** to the water and complete filling with water to the required total volume.
4. Add the required amount of any Solution formulation partner if needed
5. Complete filling the tank with the balance of water and apply
6. Maintain agitation throughout mixing and spraying.
7. If application is stopped prior to completion, re-suspend spray solution by full agitation prior to commencing spraying again.

**UNDERSTANDING PERFORMANCE**

- Consult the product label for application rates and water volumes for all crops and diseases.
- Good coverage is essential for effective disease control.
- Use **Revenue Q** as part of an integrated disease management strategy. Rotate fungicide groups whenever possible.
- Do not apply **Revenue Q** more than twice per crop season.

Always read and follow all label precautions and directions.

\*When applying tank mix combinations, always follow all label requirements for each product used in the tank mix. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

Revenue® Q is a trademark of AgraCity or its affiliates. All other products are trademarks of their respective holders.

# SPADE® FUNGICIDE

**SAME ACTIVE AS HEADLINE®**  
**Pyraclostrobin Fungicide**

## WHY USE SPADE?

- Same active as Headline
- Proven control of key diseases in many crops
- Provides both protective and curative properties
- Delivers wall to wall coverage against foliar diseases in pulses as the crop grows
- Improves overall plant health
- Use in all soil zones
- Tank mix with foliar
- Proven disease control at an affordable price

## FOR USE ON

- Cereals (wheat, barley, rye), corn, dry beans, faba beans, field peas, lentils, chickpeas, soybeans, potatoes, sugar beets, alfalfa (for seed production), grasses (blue grasses, fescues, and ryegrasses for seed production).

## DISEASES CONTROLLED AND APPLICATION RATES

(see label for complete list of crops and rates)

In wheat	Tan spot, septoria leaf blotch and leaf rust	120-240 ml/acre
In wheat	Powdery mildew, spot blotch, and stripe rust	160-240 ml/acre
In barley	Net blotch	120-240 ml/acre
In barley	Scald, spot blotch and stripe rust	160-240 ml/acre
In glyphosate-tolerant & conventional corn	Common rust and gray leaf spot	160-240 ml/acre
In dry beans	Anthrachnose, mycosphaerella blight, powdery mildew and rust	160-240 ml/acre
In faba beans	Mycosphaerella blight and powdery mildew	160-240 ml/acre
In field peas	Mycosphaerella blight and powdery mildew	160 ml/acre
In field peas	Downy mildew	160-240 ml/acre
In chickpeas	Ascochyta blight	160 ml/acre
In lentils	Anthrachnose and ascochyta blight	160 ml/acre
In glyphosate-tolerant & conventional soybeans	Asian soybean rust and frog eye leaf spot	160 ml/acre
In potatoes	Early blight and late blight	180-267 mL/acre
In sugar beets	Cercospora leaf spot and powdery mildew	268 - 360 mL/acre



**SPADE** FUNGICIDE

SAME ACTIVE AS HEADLINE®

**REQUIRED SURFACTANT**

- None

**ACTIVE INGREDIENT**

- Pyraclostrobin 250 g/L emulsifiable concentrate (EC)

**PACKAGE SIZE (RATE DEPENDENT)**

- Case: 2 x 13 L jugs treats 72-214 acres
- Bulk: 120 L drum treats 333-1,000 acres
- 1,000 L tote treats 2,177 - 8,333 acres

**APPLICATION TIMING (CROP)**

- **Cereals:** Immediately at or after flag leaf is emerged
- **Corn:** Early to full tassel
- **Dry beans:** Before flowering (if anthracnose is present), early flowering (20-50% bloom)
- **Faba beans:** Start of flowering
- **Field peas:** Start of flowering (for mycosphaerella blight), prior to or at disease onset (for powdery mildew)
- **Chickpeas:** At disease onset
- **Lentils:** Row closure or at first flower
- **Soybeans:** Early to late flower

**WATER VOLUME**

- **Ground:** Minimum 10 US gallons/acre (40 L/acre), except potatoes and sugar beets minimum 20 US gallons/acre (80 L/acre)
- **Aerial:** Minimum 5 US gallons/acre (20 L/acre)

**RAINFAST PERIOD**

- 1 hour

**RE-CROPPING OPTIONS**

- Grow all major crops the year after application

**TANK MIX OPTIONS\***

- None

**STORAGE**

- Do not freeze. Store in a cool, dry, locked, well-ventilated area without a floor drain.

**GRAZING AND HARVEST**

- Do not feed alfalfa hay or forage to livestock. All other crops can be grazed or fed to livestock.
- Do not graze treated corn crops within 6 days of last application.

**PRE-HARVEST INTERVALS:**

- **Canola:** 21 days after application
- **Corn:** 7 days after application
- **Flax and soybeans:** 21 days after application
- **Dry beans, faba beans, field peas and lentils:** 30 days after application

**MIXING INSTRUCTIONS**

1. Fill the spray tank 1/2 full of water, start sprayer agitation, and continue agitation throughout mixing and spraying process.
2. Add the required amount of any tank mix partner if needed.
3. Add required amount of **Spade** to the tank, finish filling the tank with water, and apply product.
4. If application is stopped prior to completion, re-suspend spray solution by full agitation prior to commencing spraying again.
5. Clean out sprayer equipment thoroughly after application is complete.

**UNDERSTANDING PERFORMANCE**

- Consult the product label for uses, application rates and water volumes for all crops and diseases.
- **Spade** fungicide works best if applied prior to, or at the onset of disease, and as part of a regularly scheduled protective spray program.
- Good coverage is essential for effective disease control. Use higher water volumes with denser crop canopies.
- **DO NOT** apply to cereals that have started heading out - later application is thought to increase incidence of fusarium head blight in wheat and barley.

Always read and follow all label precautions and directions.

\*When applying tank mix combinations, always follow all label requirements for each product used in the tank mix. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

Spade® is a trademark of AgraCity or its affiliates. All other products are trademarks of their respective holders.



# SPADE® PLUS FUNGICIDE

## AGRACITY EXCLUSIVE PRODUCT Pyraclostrobin Fungicide + Boron

### WHY USE SPADE PLUS?

- AgraCity Exclusive Product - contains SPADE for proven fungicide performance + boron for optimum pulse crop flowering and yield potential
- Proven control of key diseases in many different crops
- Provides both protective and curative properties
- Delivers wall to wall coverage against foliar diseases in pulses as the crop grows
- Improves overall plant health
- Use in all soil zones
- Packaged with boron which is important during flowering and pollination
- Proven disease control at an affordable price

## FOR USE ON

- Field peas, lentils, chickpeas, fababeans, soybeans, alfalfa (for seed production), cereals (wheat, barley, rye)

### DISEASES CONTROLLED AND APPLICATION RATES

(see label for complete list of crops and rates)

In wheat	Tan spot, septoria leaf blotch and leaf rust	120-240 ml/acre
In wheat	Powdery mildew, spot blotch, and stripe rust	160-240 ml/acre
In barley	Net blotch	120-240 ml/acre
In barley	Scald, spot blotch and stripe rust	160-240 ml/acre
In glyphosate-tolerant & conventional corn	Common rust and gray leaf spot	160-240 ml/acre
In dry beans	Anthracnose, mycosphaerella blight, powdery mildew and rust	160-240 ml/acre
In faba beans	Mycosphaerella blight and powdery mildew	160-240 ml/acre
In field peas	Mycosphaerella blight and powdery mildew	160 ml/acre
In field peas	Downy mildew	160-240 ml/acre
In chickpeas	Ascochyta blight	160 ml/acre
In lentils	Anthracnose and ascochyta blight	160 ml/acre
In glyphosate-tolerant & conventional soybeans	Asian soybean rust and frog eye leaf spot	160 ml/acre
In potatoes	Early blight and late blight	180-267 ml/acre
In sugar beets	Cercospora leaf spot and powdery mildew	268 - 360 ml/acre



**SPADE PLUS** FUNGICIDE

AGRICITY EXCLUSIVE PRODUCT

**REQUIRED SURFACTANT**

- None

**ACTIVE INGREDIENT**

- Pyraclostrobin 250 g/L emulsifiable concentrate (EC)
- Boron 15%

**PACKAGE SIZE (RATE DEPENDENT)**

- **Case:** 6.5L **Spade** + 8L boron (40 ac at pulse rate)

**APPLICATION TIMING (CROP)**

- **Cereals:** Immediately at or after flag leaf is emerged
- **Corn:** Early to full tassel
- **Dry beans:** Before flowering (if anthracnose is present), early flowering (20-50% bloom)
- **Faba beans:** Start of flowering
- **Field peas:** Start of flowering (for mycosphaerella blight), prior to or at disease onset (for powdery mildew)
- **Chickpeas:** At disease onset
- **Lentils:** Row closure or at first flower
- **Soybeans:** Early to late flower

**WATER VOLUME**

- **Ground:** Minimum 10 US gallons/acre (40 L/acre), except potatoes and sugar beets minimum 20 US gallons/acre (80 L/acre)
- **Aerial:** Minimum 5 US gallons/acre (20 L/acre)

**RAINFAST PERIOD**

- 1 hour

**RE-CROPPING OPTIONS**

- Grow all major crops the year after application

**TANK MIX OPTIONS\***

- None

**STORAGE**

- Do not freeze. Store in a cool, dry, locked, well-ventilated area without a floor drain.

**GRAZING AND HARVEST**

- Do not feed alfalfa hay or forage to livestock. All other crops can be grazed or fed to livestock.
- Do not graze treated corn crops within 6 days of last application.

**PRE-HARVEST INTERVALS:**

- **Canola:** 21 days after application
- **Corn:** 7 days after application
- **Flax & Soybeans:** 21 days after application
- **Dry beans, faba beans, field peas and lentils:** 30 days after application

**MIXING INSTRUCTIONS**

1. Fill the spray tank 1/2 full of water, start sprayer agitation, and continue agitation throughout mixing and spraying process.
2. Add the required amount of any tank mix partner if needed
3. Add required amount of **Spade** to the tank,
4. Add required amount of boron to the tank, finish filling the tank with water, and apply product.
5. If application is stopped prior to completion, re-suspend spray solution by full agitation prior to commencing spraying again.
6. Clean out sprayer equipment thoroughly after application is complete.

**UNDERSTANDING PERFORMANCE**

- Consult the product label for uses, application rates and water volumes for all crops and diseases.
- **Spade** fungicide works best if applied prior to, or at the onset of disease, and as part of a regularly scheduled protective spray program.
- Good coverage is essential for effective disease control. Use higher water volumes with denser crop canopies.
- **DO NOT** apply to cereals that have started heading out. Later application is thought to increase incidences of fusarium head blight in wheat and barley.

Always read and follow all label precautions and directions.

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# SPAXOR™ FUNGICIDE

**AGRACITY EXCLUSIVE PRODUCT**  
**Prothioconazole + Pyraclostrobin Fungicide**

## TECHNICAL BULLETIN

### FOR INFORMATION PURPOSES ONLY

It is anticipated the regulatory decision on SPAXOR HERBICIDE will be made by April 15, 2023.

This product is currently being assessed for registration under the Pest Control Products Act. It cannot be manufactured, imported, distributed, or used in Canada at this time, unless explicit authorization has been obtained from Health Canada to use this product for the purpose of conducting research under the Pest Control Products Regulations.

#### WHY USE SPAXOR?

- AgraCity Exclusive Product
- Unique combination
- Built for pulses
- Proven control of key diseases
- Multi mode of action
- Premium control at an affordable price

#### FOR USE ON

- Lentil, chickpea, soybean



#### DISEASES CONTROLLED

Lentil	Anthrachnose, ascochyta blight, white mould
Chickpea	Ascochyta blight
Soybean	Frog eye leaf spot



**SPAXOR** FUNGICIDE

AGRACITY EXCLUSIVE PRODUCT

**REQUIRED SURFACTANT**

- No surfactant needed

**ACTIVE INGREDIENT**

- Pyraclostrobin 250 g/L emulsifiable concentrate (SC)
- Prothioconazole 480 g/L suspension

**PACKAGE SIZES:**

- **Case:** 9.7 L Pyraclostrobin + 7.5 L Prothioconazole 60 – 80 acres

**APPLICATION TIMING**

- Lentils: Apply at the beginning of flowering or the first signs of disease
- Chickpea, soybean: Apply at the first sign of disease

**WATER VOLUME**

- **Ground:** Minimum 10 US gallons/ac (40 L/ac)
- **Aerial:** Minimum 5 US gallons/ac (20 L/ac)

**RAINFEST PERIOD**

- 1 hour

**RE-CROPPING OPTIONS**

- Grow all major crops the year after application

**TANK MIX OPTIONS\***

- Refer to label for additional diseases and insects controlled when tank mixed.

**STORAGE**

- Do not freeze. Store in a cool, dry, locked, well ventilated area without a floor drain.

**GRAZING AND HARVEST**

- Pre-harvest interval (days)

**MIXING INSTRUCTIONS**

1. Add one-half of the required amount of water to the spray or mixing tank and start agitation.
2. Add the required amount of any tank-mix partner if needed.
3. Add the required quantity of **Spaxor** to the water and complete filling with water to the required total volume.
4. Maintain agitation throughout mixing and spraying.
5. Add the required amount of surfactant
6. Complete filling the tank with the balance of water and apply
7. If application is stopped prior to completion, re-suspend spray solution by full agitation prior to commencing spraying again.

**UNDERSTANDING PERFORMANCE**

- Consult the product label for application rates and water volumes.
- Good coverage is essential for effective disease control.
- Use **Spaxor** as part of an integrated disease management strategy including resistant crop varieties, crop rotation, and plant residue management. Rotate fungicide groups whenever possible to prevent resistance.
- Do not apply **Spaxor** more than twice per crop season.

Always read and follow all label precautions and directions.

\*When applying tank mix combinations, always follow all label requirements for each product used in the tank mix. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

# TORNADO® FUNGICIDE

GROUP  
3

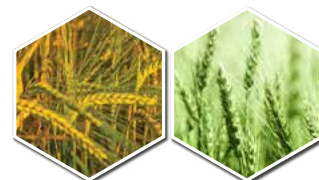
**SAME ACTIVE AS FOLICUR®**  
**Tebuconazole Fungicide**

## WHY USE TORNADO?

- Same active as Folicur
- Proven control of leaf diseases in cereal crops and soybeans
- Suppression of fusarium head blight (FHB) in wheat
- Preventative and curative properties
- Helps increase yield and protect quality and grade
- Use in all soil zones
- No re-cropping restrictions
- Tank mix with foliar
- Proven cereal leaf disease control at an affordable price

## FOR USE ON

- Wheat, barley, oats, soybean



## DISEASES CONTROLLED AND APPLICATION RATES

(See label for complete list of crops and rates)

### Spring wheat, winter wheat, durum wheat

*Controlled:*

- Septoria glume blotch: 202 ml/acre
- Rusts (leaf, stem, stripe): 153-202 ml/acre
- Septoria leaf blotch: 153-202 ml/acre
- Tan spot: 153-202 ml/acre
- Powdery mildew: 202 ml/acre

*Suppressed:*

- **Fusarium** head blight: 202 ml/acre

### Barley

*Controlled:*

- Net blotch: 153-202 ml/acre
- Spot blotch: 153-202 ml/acre
- Scald: 153-202 ml/acre
- Rusts (leaf, stem, stripe): 153-202 ml/acre
- Septoria leaf blotch: 153-202 ml/acre
- Powdery mildew: 153-202 ml/acre

### Oats

*Controlled:*

- Crown rust: 153 ml/acre
- Stem rust: 153 ml/acre
- Stagnospora leaf blotch and black stem: 153-202 ml/acre
- Phaeosphaeria avenaria f. sp. avenaria: 153-202 ml/acre

### Soybean

*Controlled:*

- Asian soybean rust: 153-202 ml/acre
- Frogeye leaf spot: 153-202 ml/acre

*Suppressed:*

Powdery mildew: 153-202 ml/acre



**TORNADO FUNGICIDE**

SAME ACTIVE AS FOLICUR

**REQUIRED SURFACTANT**

- None required

**ACTIVE INGREDIENT**

- Tebuconazole 250 g/L emulsion in water (EW)

**PACKAGE SIZE**

- **Case:** 2 x 8.1 L treats 80-105 acres
- **Bulk:** 96 L Drum treats 480-640 acres  
1,000 L Tote treats 4,950- 6,666 acres

**APPLICATION TIMING (CROP)**

- **Wheat**
  - Fusarium head blight, septoria glume blotch: within the time period when 75% of wheat heads are fully emerged to when 50% of heads on the main stem are in flower
  - Rusts, septoria, tan spot, powdery mildew: at the first sign or very early stage of disease, especially if weather conditions are conducive to disease development, up to the end of flowering stage
- **Barley, oats**
  - Net blotch, spot blotch, scald, rusts, septoria, powdery mildew: apply at the very early signs of disease development
- **Soybeans**
  - Asian soybean rust, frogeye leaf spot, powdery mildew: apply when the first symptoms of disease can be found or when the risk of infection is imminent

**WATER VOLUME**

- **Ground:** Minimum 10 US gallons/acre (40L/acre)
- **Aerial:** Minimum 5 US gallons/acre (20L/acre)

**RAINFEST PERIOD**

- 1 hour

**RE-CROPPING OPTIONS**

- Grow all major crops the year after application

**TANK MIX OPTIONS\***

- Decis®†, Sevin® XLR Plus†

**STORAGE**

- Store in a cool, dry place and make sure to avoid cross-contamination with other pesticides, fertilizers, food products, and animal feed. Store in original container and out of the reach of children, preferably in a locked storage area.

**GRAZING AND HARVEST**

- Graze or feed treated crops 6 days after application

**PRE-HARVEST INTERVAL  
(SEE LABEL FOR COMPLETE LISTING)**

- **Wheat, barley, oats:** 36 days after application
- **Soybeans:** 20 days after application

**MIXING INSTRUCTIONS**

1. Fill the spray tank 1/2 full of water, start sprayer agitation, and continue agitation throughout mixing and spraying process.
2. Add the required amount of any tank mix partner, if needed.
3. Add required amount of **Tornado** to the tank, finish filling the tank with water, and apply product.
4. If application is stopped prior to completion, re-suspend spray solution by full agitation prior to commencing spraying again.
5. Clean out sprayer equipment thoroughly after application is complete.

**UNDERSTANDING PERFORMANCE**

- Consult the product label for uses, application rates and water volumes for all crops and diseases.
- Fusarium head blight risk is greater when the weather is warm and wet at the flowering to soft dough stages. Consult the provincial disease risk maps
- **Tornado** fungicide has preventative and curative properties, but works best if applied early at the onset of disease
- Good spray coverage is critical for effective disease control. Use higher water volumes with dense crop canopies
- Where a rate range is specified, consider the higher rate when weather conditions are conducive to heavy disease development
- For fusarium head blight, ensure thorough coverage of all wheat heads for optimal suppression. Improved spray coverage of heads may be achieved by using nozzles designed to spray in two directions.
- Do not apply **Tornado** more than once per crop season. Avoid applying multiple fungicides within the same group during the same crop year to delay the development of resistance.

Always read and follow all label precautions and directions.

\*When applying tank mix combinations, always follow all label requirements for each product used in the tank mix. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

†Supported by AgraCity. For a complete list of tank mix options, go to [AgraCity.com/Solutions](http://AgraCity.com/Solutions).

Tornado® is a trademark of AgraCity or its affiliates. All other products are trademarks of their respective holders.

# TORNADO® PRO FUNGICIDE

**AGRACITY EXCLUSIVE PRODUCT**  
**Tebuconazole + Pyraclostrobin Fungicide**

## WHY USE TORNADO PRO?

- AgraCity Exclusive Product
- Multiple modes of action for resistance management
- Preventative and curative properties
- Helps protect the crop to increase yield potential
- Improves overall plant health
- Use in all soil zones
- Wide window of application
- Tank mix with foliar
- Proven cereal leaf disease control at an affordable price

## FOR USE ON

- Wheat, barley

## DISEASES

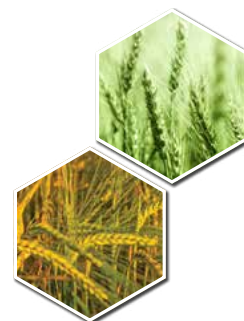
### CONTROLLED

**Spring wheat, winter wheat, durum wheat**

- Rusts (leaf, stem, stripe)
- Septoria leaf blotch
- Tan spot

#### Barley

- Net blotch
- Spot blotch
- Scald
- Rusts (leaf, stem, stripe)
- Septoria leaf blotch
- Powdery mildew





**TORNADO PRO** FUNGICIDE

AGRACITY EXCLUSIVE PRODUCT

**REQUIRED SURFACTANT**

- None required

**ACTIVE INGREDIENT**

- Tebuconazole 250 g/L emulsion in water (EW)
- Pyraclostrobin 250 g/L emulsifiable concentrate (EC)

**PACKAGE SIZE**

- **Case:** 9.8 L Tornado + 7.7 L Spade
- **Bulk:** 118 L Tornado + 92.4 L Spade

**APPLICATION TIMING**

- Apply at the first sign or very early stage of disease, especially if weather conditions are conducive to disease development

**WATER VOLUME**

- **Ground:** Minimum 10 US gallons/acre (40 L/acre)
- **Aerial:** Minimum 5 US gallons/acre (20 L/acre)

**RAINFEST PERIOD**

- 1 hour

**RE-CROPPING OPTIONS**

- Grow all major crops the year after application

**TANK MIX OPTIONS\***

- None

**STORAGE**

- Do not freeze. Store in a cool, dry, well-ventilated place without a floor drain and make sure to avoid cross-contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

**GRAZING AND HARVEST**

- Graze or feed treated crops 6 days after application

**PRE-HARVEST INTERVAL**

(see label for complete listing)

- **Wheat, barley:** 36 days after application

**MIXING INSTRUCTIONS**

1. Fill the spray tank 1/2 full of water, start sprayer agitation, and continue agitation throughout mixing and spraying process.
2. Add required amount of **Tornado** to the tank, followed by **Spade®**.
3. Finish filling the tank with water and apply product.
4. If application is stopped prior to completion, re-suspend spray solution by full agitation prior to commencing spraying again.
5. Clean out sprayer equipment thoroughly after application is complete.

**UNDERSTANDING PERFORMANCE**

- Consult the product label for uses, application rates and water volumes for all crops and diseases.
- **Tornado Pro** fungicide has preventative and curative properties, but works best if applied preventatively at the onset of disease
- Good spray coverage is critical for effective disease control. Use higher water volumes with dense crop canopies
- Apply **Tornado Pro** only once per crop season. If disease persists or weather conditions are favourable to disease, apply another fungicide product 10-14 days later. Avoid applying products containing the same fungicide groups as **Tornado Pro** to reduce the risk of resistant forms of disease.
- For best disease control, use **Tornado Pro** as part of an integrated disease management approach including resistant seed varieties, crop rotation, and other such management practices.
- Do not apply **Tornado Pro** when the crop is flowering. Applications of fungicides from the strobil class are thought to increase the risk of fusarium head blight if applied during flowering.

Always read and follow all label precautions and directions.

\*When applying tank mix combinations, always follow all label requirements for each product used in the tank mix. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed.

Spade® and Tornado® are trademarks of AgraCity or its affiliates. All other products are trademarks of their respective holders.

# CLONE<sup>®</sup> DESICCANT

GROUP  
22

**SAME ACTIVE AS REGLONE<sup>®</sup>**  
**Diquat Desiccant**

## WHY USE CLONE?

- Same active as Reglone
- Fast acting performance
- Quick crop drydown
- Improved crop quality
- Faster, easier harvest
- Use in all soil zones
- No re-cropping restrictions
- Proven desiccant performance at an affordable price

## FOR USE ON

### REGISTERED CROPS AND RATES<sup>†</sup> (L/AC)

Crop	Ground	Aerial
Canola <sup>†</sup>	0.5-0.69	0.69-0.93
Dry bean	0.5-0.69	0.69-0.93
Adzuki bean	0.5-0.69	0.69-0.93
Soybean	0.5-0.69	0.69-0.93
Fababean	0.5-0.69	0.69-0.93
Flax	0.5-0.69	0.69-0.93
Lentil	0.5-0.69	0.69-0.93
Lupin	0.93	N/A
Mustard	0.5-0.69	0.69-0.93
Pea	0.5-0.69	0.69-0.93
Sunflower	0.5-0.69	0.69-0.93
Chickpeas <sup>†</sup>	0.5-0.69	0.69-1.09
Alfalfa, clover (seed production)	0.69-1.09	0.69-1.09

**NOTE: Higher rates should be used with heavy crop stands, weedy crops, or heavy vine regrowth.**

<sup>†</sup> Use high rates for dense crops and/or heavy weed infestations. High rates are recommended in canola and chickpeas.

\* This product can cause shattering losses in non-shatter resistant canola.



**CLONE® DESICCANT**

SAME ACTIVE AS REGLONE®

**REQUIRED SURFACTANT**

- Agral® 90 at 1 L per 1,000 L water
- Dry beans and lentils: LI 700 at 2.5 L per 1,000 L water may also be used

**ACTIVE INGREDIENT**

- Diquat 240 g/L solution

**PACKAGE SIZE (LOW RATE)**

- **Case:** 40 acres
- **Bulk:** 230 acres, 1,000 acres, 2000 acres

**WATER VOLUME**

- **Ground:** 20-40 US gallons/acre (90-180 L/acre)
- **Aerial:** Minimum 4.5 US gallons/acre (18 L/acre)

**RAINFEST PERIOD**

- 15 minutes – no effect once the spray solution has dried.

**RE-CROPPING OPTIONS**

- All major crops can be grown the year after application

**TANK MIX OPTIONS**

- None

**STORAGE**

- Do not freeze. If crystallization occurs because of freezing, warm to room temperature and agitate gently before use. Store this product away from food or feed. Avoid direct sunlight.

**WHEN TO APPLY**

- **Canola:** 80-90% seed color change; harvest in 7-10 days, no later than 14 days
- **Dry beans:** 80-90% of leaves defoliated and 80% of pods are yellow
- **Soybeans:** 80-90% of leaves and 80% of pods are yellow
- **Faba beans:** most plants ripe and dry; bottom pods are tan or black; wait 4-7 days to harvest
- **Flax:** 75% of bolls brown; harvest when sample tests dry
- **Lentils:** Lowest pods are light brown and rattle when shaken; wait 4-7 days to harvest
- **Mustard:** 75% of seed has turned color; harvest in 7-10 days, maximum 14 days
- **Peas:** Bottom pods are ripe and dry; seeds detached from pods; harvest when sample tests dry
- **Lupins:** Pods are brown and internal seed is yellow when cut.
- **Sunflowers:** Backs of the heads and bracts are turning yellow and seed moisture is 20-50%; wait 15-20 days to harvest
- **Chickpeas:** Plants yellow, pods mature, seeds changed colour and detached from pods
- **Alfalfa, red and white clover:** Pods are ripe but before shattering; must harvest within 7 days

**GRAZING AND HARVEST**

See label for pre-harvest restrictions by crop

- Crop waste remaining after harvest (i.e. pea or alfalfa stems) can be fed to livestock

**MIXING INSTRUCTIONS**

1. Fill the spray tank 1/2 full of clean water, begin agitation or bypass and continue throughout mixing and application process.
2. Add the required amount of **Clone**.
3. Add the required amount of surfactant.
4. Complete filling of sprayer and apply.
5. If application is stopped prior to completion, re-suspend spray solution by full agitation prior to commencing spraying again.

**UNDERSTANDING PERFORMANCE**

- The best time to apply is evening or before periods of darkness, or on cloudy days.
- Use high water volumes as directed and increase water volume with thick crop canopy.
- Typical symptoms include wilting, interveinal discoloration within hours of application, followed by leaf-edge blackening in some species, and complete browning of top growth. Complete dessication can take 4-14 days depending on the crop and weather conditions.
- Drought stress or late season moisture can reduce product performance.
- Application timing is critical; if product is applied too early crop quality can be impacted.
- Regular canola can shatter easily if harvest is delayed, pod shatter tolerant varieties will have less shattering.
- Adverse weather after application (heavy rains, wind, hail) may increase crop damage and loss.

Always read and follow all label precautions and directions.

Clone® is a trademark of AgraCity or its affiliates. All other products are trademarks of their respective holders.

# SURFACTANTS & WATER CONDITIONERS



## ASSASSIN® II

**SAME ACTIVE AS MERGE®**

**Active ingredients:**

Surfactant blend.....50%

Solvent (petroleum hydrocarbons).....50%

A blend of surfactant with petroleum hydrocarbons for application with various herbicides.



## CHEM SPRAY®

**SAME ACTIVE AS SCORE®**

**Paraffin base petroleum oil with a Surfactant blend**

**Chem Spray®** is a non-ionic blend of surfactants and highly refined paraffinic crop oil designed to optimize the performance of **Aurora® Herbicide** on spring wheat and durum wheat.

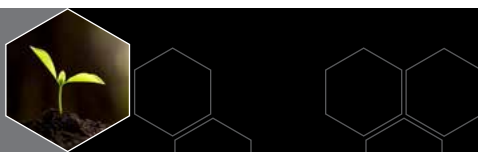


## EMPIRE® II

**SAME ACTIVE AS AMIGO®**

**Phosphate Ester Surfactant**

For use with the post-emergence herbicide **Independence®**.





# NON-IONIC SURFACTANT

Non-ionic surfactants are spreader-activators. Non-ionic means that there are no positive or negative ions to compete or react with the herbicide it is being tank mixed with.



# UAN 28%

UREA AMMONIUM NITRATE LIQUID FERTILIZER  
Active ingredient: 28-0-0

## TANK MIX OPTIONS

- For use with post emergent **Boa®**, **Boa® Pro** and **Anaconda®**.

Always read and observe all label directions including rates, restrictions, and grazing and harvest limitations.

\*Supported by AgraCity under PMRA tank mix guidelines. When applying tank mix combinations, read and observe all label directions for each product used in the tank mix, and follow the more stringent label precautionary measures for mixing, loading and applying stated on both product labels.





**Enter to  
WIN  
\$50,000  
of AgraCity Products**

**AgraCity**

Details at [AgraCity.com/win](http://AgraCity.com/win)

# FOLIAR FERTILIZERS



AgraCity has developed its own line of foliar fertilizers specially designed for Canada's crops and conditions and the challenges Canadian farms face every growing cycle. The goal of our formulations was to simplify the foliar nutrition space and create products for the common crop and issues that exist in Canada. The formulations were developed with AgraCity's extensive knowledge of Canadian agriculture and bringing in plant biochemistry and physiology experience across the world.



## CANOLA MAX: MAXIMIZE EARLY SEASON CANOLA GROWTH

Applied during early herbicide applications on canola. Like **Health Max** but with high levels of sulphur and boron which are required to maximize canola yields.



## HEALTH MAX: OVERCOME STRESS TO KEEP PLANTS HEALTHY

This product is designed with all crops grown in Canada in mind. **Health Max** contains nutrients, plant extracts, and plant growth regulators specifically designed to promote rapid plant growth during times of plant stress. **Health Max** is designed to be used with herbicide application or after significant stress events such as frost or hail.



## POD MAX: MAXIMIZE POD FILL IN CANOLA

Designed for later herbicide applications in canola. **Pod Max** contains high concentration of sulphur and boron to support flower formation and pod set in canola. Product designed to also help canola through stress events prior to flowering.



## PROTEIN MAX: MAXIMIZE THE PROTEIN LEVELS IN CEREALS

Designed to be used with fungicides used on wheat prior to flowering. **Protein Max** contains PGRs plus nitrogen and sulphur designed specifically to promote the formation of protein during the later stages of wheat development. **Protein Max** will support maximizing wheat yield potential and protein formation to maximize your return on investment on your wheat acres.



## PULSE MAX: MAXIMIZE POLLINATION IN PULSES

**Pulse Max** is for applications with early season herbicides on pulse crops. **Pulse Max** contains nutrients, PGRs and stress relievers to support rapid plant and recovery after herbicide applications.



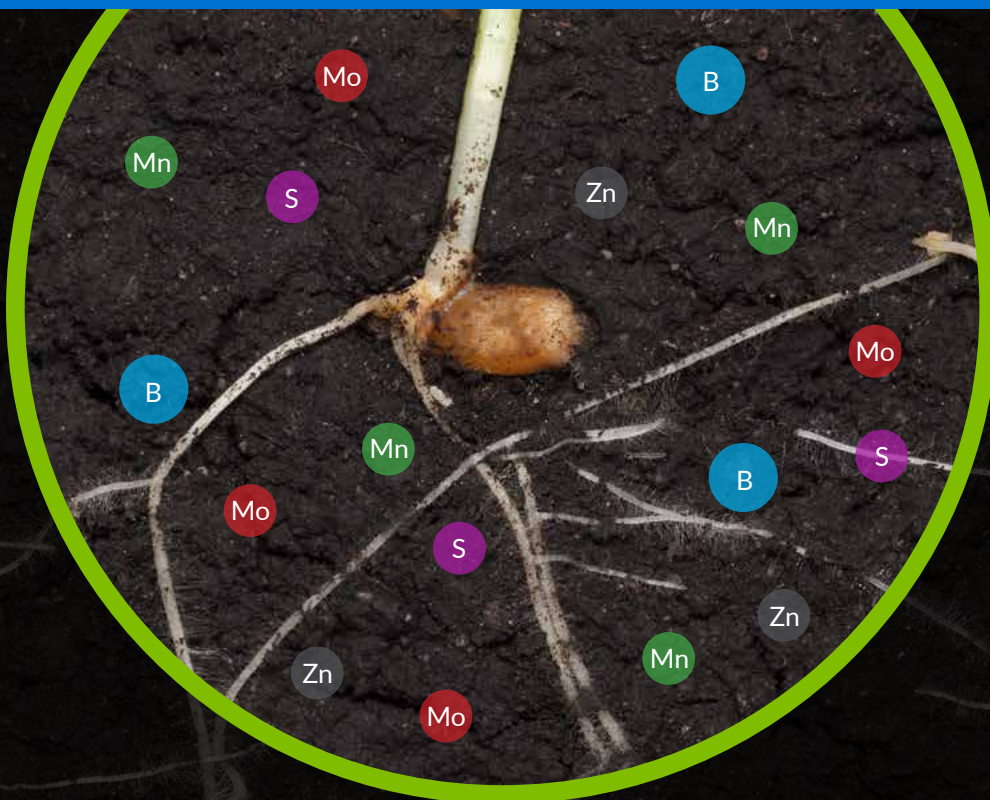


Designed in  
Canada for Canadian  
Farmers

# MicroPhos

THE MULTI-VITAMIN FOR YOUR CROP

## NEXT GENERATION FERTILIZER





# MicroPhos

# MICRO-PAK

## Provide your crop with everything it requires to maximize yields.

### BENEFITS OF USING MICRO-PHOS MICRO-PAK

- ◆ Guaranteed analysis: 11 N-39 P-0 K- 6 S, 1.0 Zn, Mo, Mn, B
- ◆ Contains a proprietary blend of plant growth regulators, shown to promote root growth
- ◆ Two mechanisms to increase phosphorus availability:
  1. Power Phos shields the phosphorus from ions in the soil that can tie it up
  2. Sulfates lower the pH around the granule to keep the phosphorus in an available form
- ◆ Uniform distribution of nutrients in every granule
- ◆ Use less product compared to traditional fertilizers
- ◆ Treated with a dust-reducing coating and screened multiple times for improved handling
- ◆ Provide your crop with four commonly deficient micro-nutrients critical for root development, nitrogen utilization, and pulse nodulation



ZINC deficiency in PEAS



BORON deficiency in CANOLA

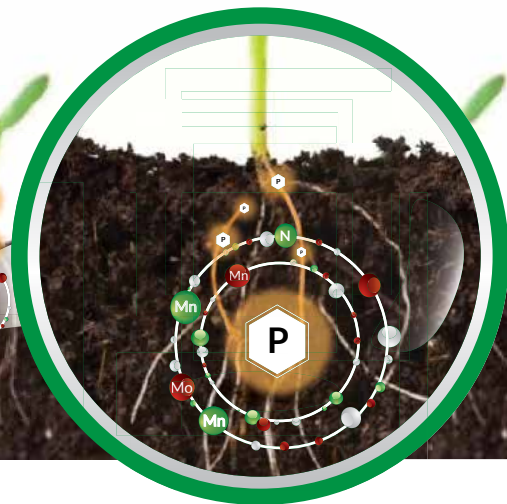
## WITHOUT

### MICRO-PHOS MICRO-PAK

With fertilizer alone, calcium, iron, magnesium and aluminum ions bind with phosphorus in the soil, **making it unavailable for plant use.**



**MICRO-PHOS MICRO-PAK** powered by Power Phos surrounds the phosphorous granule in a water-soluble negatively charged "shield". The Power Phos shield attracts and binds the ions that tie up Phosphorus making it **more available to your crop.**



## WITH

### MICRO-PHOS MICRO-PAK





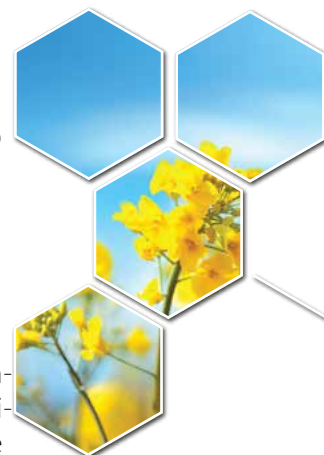
# MicroPhos

# CANOLA and CANOLA PLUS

**Micro-Phos Canola** and **Canola Plus** are the newest additions to AgraCity's fertilizer product line-up. These products have been specially designed to meet the nutritional needs of canola grown in Canada.

## BENEFITS

- **Micro-Phos Canola** and **Canola Plus** have all the same technology as our proven MicroP-hos Micro-Pack ensuring maximum use efficiency of applied phosphorous.
- **Micro-Phos Canola** has a guaranteed analysis of 10N-29P-0-22S + Bo
- **Micro-Phos Canola Plus** has a guaranteed analysis of 10N-25P-0-25S + Bo
- **Micro-Phos Canola** contain boron to support flowering and seed set maximizing crop yields.
- Product has both elemental and sulphate sulphur to provide season long supply of sulphur to high demand canola crops.



## AGRONOMIST COMMENTS

The fertilizer field has seen very few innovations over the decades when compared with the rest of the agriculture industry. **Micro-Phos** is the next generation of fertilizer combining several new innovations into a single product. **Micro-Phos** has solved the issue of micro-nutrient distribution to make valuable micronutrients more available to your valuable crop. Phosphorus availability in Canada is a continuous challenge due to our conditions. PowerPhos technology is a real game changer in getting the most out of your phosphorous dollars and **Micro-Phos Canola** is a great fit across Canada.

## COMMON USES & RATES

The innovations in **Micro-Phos** have allowed us to get more out of each granule. As such we are recommending these use rates.

(When using this chart take the rate of the product previously used and find the **Micro-Phos Canola** suggested application rate.)

TARGET BS P/AC	MAP	S15	MICROPHOS CANOLA
20	38	61	45-50
25	48	76	55-60
30	58	91	65-70
35	67	106	75-80
40	77	121	85-90



# MANAGING HERBICIDE RESISTANCE



In the past several decades many Canadian farmers have seen firsthand the challenge of herbicide resistance on their farms.

Herbicide-resistant weeds develop due to the repeated use of the same herbicide group over a number of years on the same field. This typically starts with a small number of weeds developing resistance, and these weeds then spreading across a field and into neighboring fields. These resistant weed biotypes may be resistant to both repeated doses and higher than label rates of the herbicide in question.

Understanding herbicides and herbicide resistance can be confusing because different brands often contain the same active ingredient, so simply switching herbicide brands may not help to manage resistance, and could in fact worsen the problem.

There can also be differences in how quickly resistance develops, depending on both the weed and the herbicide. In Western Canada, some of the common resistant weeds are kochia, wild oats, cleavers, and chickweed, and the herbicide group that has the most resistant weeds is Group 2. Resistant weeds can develop within any herbicide group. This is caused by overuse of that

group within too short a period of time.

## WHAT CAN GROWERS DO TO MANAGE HERBICIDE RESISTANCE?

### ADD TANK MIXES TO GLYPHOSATE.

Glyphosate-tolerant weeds are becoming a major problem in western Canada. When using glyphosate, always add a tank mix partner.

### ROTATE HERBICIDE GROUPS.

Research has shown that herbicide rotation is one of the best ways to delay herbicide resistance. Check the herbicide label to determine which group it belongs to.

### USE MULTI-MODE OF ACTION HERBICIDES.

Using herbicide products that have 2 different effective modes of action on the same weed can also help delay herbicide resistance.

**ROTATE CROPS.** Different crops will often have different herbicide options, so having a long-term crop rotation can help delay resistance.

### CHANGE CULTURAL PRACTICES.

Consider cultural changes, such as delayed seeding, tillage, increasing plant stands, and fertility. All of

these things can help increase crop competition and reduce weed populations.

**PLAN LONG TERM.** Consider your crop and herbicide rotation over a longer term, not just 1 year. That can help you plan your herbicide rotation at the same time.

## TALK TO AGRACITY FIRST ABOUT MANAGING HERBICIDE RESISTANCE

AgraCity has the tools you need to help manage herbicide resistance on your farm. We have the largest portfolio of herbicides in the country, providing farmers with affordable high-performance solutions from most major herbicide mode of action groups. Because AgraCity is not tied to any one supplier or manufacturer, we are able to create new solutions with different herbicide active ingredients from around the world and deliver them right to your farm.

*Because AgraCity is not tied to any one company or manufacturer, we are able to create new solutions with different herbicide active ingredients from around the world and deliver them right to your farm.*



# Data Driven Monitoring Solutions for all Crops

Monitor Field Conditions from Your Mobile Phone or Computer!

## PRO

A reliable solution for all crops, providing sophisticated field monitoring and forecasting.

The **PRO** includes Pessl's durable and dependable ECO D3 station with the addition of a soil probe. Temperature, precipitation, and relative humidity plus your site-specific precision forecast can be monitored off your mobile device or desktop.



### MONITOR YOUR CROP DISEASE RISK

- Find confidence in your fungicide spraying decision with predictive analytics monitoring conditions & risks for specific crop diseases.
- Meteorological specific sensors support the knowledge of conditions for many crop disease infection risks – including Sclerotinia, Fusarium Head Blight & more!
- Time fungicide applications based on growth stage and disease risk to preserve yields & grade.

### OPTIMIZE YOUR FARM ACTIVITIES

- Know when to spray or fertilize based on forecasted rain amounts, delta-T, wind speed and direction, & potential wash off periods.
- Know when forecasted lows may impact spray efficacy.
- Boost the effectiveness of pesticide products by applying during the most optimal conditions.

### REAL-TIME, LOCAL DATA FOR YOUR FARM

- Real-time information uploaded to the **Climate** platform regularly.
- SMS warnings for scenarios when quick action is needed.
- Hourly updated, location specific forecasts to your farm for work planning.

For more information, contact your AgraCity Sales Representative, call 1-833-632-7637.





## BugScout



Offering insect monitoring (pheromone, fruit fly, bug or colour trap) and allows for remote monitoring of insect pressures.

**BugScout** includes a high-resolution camera inside an insect trap, modem, power source with solar panel, artificial intelligence for pest identification, time-lapse photos and pest count graphing.

### CAPABILITIES

- Multiple trap types available, including pheromone, fruit fly, bug and colour
- High-resolution camera with advanced AI pest detection
- Solar powered
- Time lapse
- Pest count graphing

### BENEFITS

- Remote monitoring of insect pressure saves time and optimizes the use of resources – producing more with less
- Know the actual level and dates of pest emergence in your field
- Enhance field scouting activities by knowing actual pest dynamics by date
- Reduce yield and grade loss by timely management decisions – at a field level

## CropView



Offering remote field, crop and fruit monitoring with a panoramic and zoom camera.

**CropView** includes a panoramic camera view of the field, a high-resolution camera view of a specific area, modem and power source with solar panel, allowing you to check your field in the palm of your hand through the provided mobile app.

### CAPABILITIES

- Remote monitoring
- Panoramic lens
- Telephoto lens

### BENEFITS

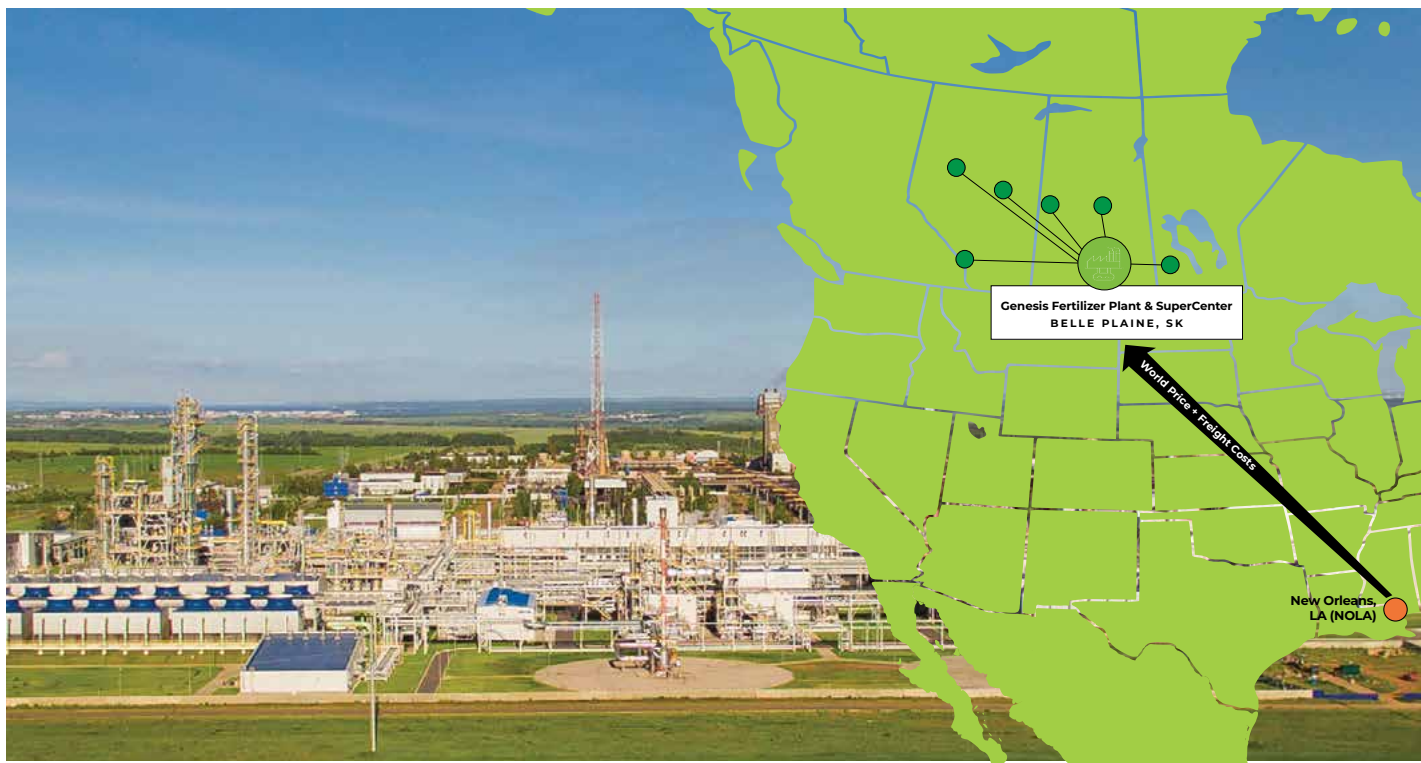
- Know before you go – save time and money
- Verify the growth stage- the timing of agronomic applications
- Verify canopy disease
- Verify plant/crop health

# AgraCity



**METOS® CANADA**  
Metos Knows





### THE SITUATION

## How The Fertilizer Market Works Today

Despite the fact that urea is produced in Western Canada, farmers on the Canadian Prairies pay some of the highest urea fertilizer prices globally' due to prices set at the NOLA port plus high freight costs.

### THE SOLUTION





## Local Fertilizer Production Owned by Farmers

A farmer-owned urea production and distribution network serving Western Canada. Farmers invest based on their fertilizer requirements, securing their future supply and receive financial distributions based on plant profits, offsetting the cost of fertilizer.

## TIME TO OWN IT

An estimated 20% of Western Canadian farmer-owned acres have the unique opportunity to own part of a fertilizer production and distribution network. This ownership secures future urea requirements and annual cash distributions from plant revenues. They will be invested to own enough of the plant to cover their individual fertilizer needs and realize the profits on those tonnes through their ownership. Investors may also purchase units without fertilizer offtake.

## Genesis' Estimated Cost to Produce 1mt of Urea

		<b>\$300 /mt</b>
	Debt & Maintenance	
	\$106	
	Operations & Overhead	\$61
	Variable Costs & Direct Labour	\$126
		

**Genesis Fertilizers LP**  
310 Wall Street, Suite 211  
Saskatoon, SK S7K 1N7  
1 (833) 436-3378  
[genesishfertilizers.com](http://genesishfertilizers.com)



Along the TransCanada, just West of Regina and surrounded by farmland and an abundance of natural resources, the Genesis SuperCenter is now in operation.

## Incorporating advanced technologies and automation to minimize load and unload times.



- 22,000mt fertilizer blending and storage facility
- Capacity for six product separations
- Solid wood and concrete structure
- Capability to unload rail cars and trucks at 800 TPH
- Indoor truck loading to ensure product quality under all weather conditions
- HIM tower blender for speed and accuracy
- Offering both powder and liquid micro fertilizers

**Learn more at [genesisfertilizers.com/belle-plaine](https://genesisfertilizers.com/belle-plaine)**

## Advancing the future of fertilizer distribution across Western Canada.

**Facility Operations,  
Belle Plaine, SK:  
+1 (306) 321-4133  
Fertilizer Sales:  
1 (833) 436-3378**

# AGRACITY LOGISTICS



AgraCity has moved away from typical distribution models common in the agriculture industry. These traditional models have decentralized warehouses that have numerous pinch points, additional handling fees, third-party warehousing and various other factors that increase the costs for the farmers. **At AgraCity, we've chosen to implement a hub-and-spoke distribution network that gives us a competitive edge in the industry.** Like other global players such as Walmart, Lowe's and Fedex, we've found that this method of distribution reduces transportation costs, improves cycle times, and reduces inventory resulting in cost savings that we can pass along

to our farm customers.

Our main warehouse in Saskatoon boasts over 68,000 sq ft of space supported by a logistics and warehousing team of over 25 people.

**We compliment that with 15 tractor and trailer units as well as 3- and 5-ton trucks used to hotshot product out when you need it in a hurry.**

This distribution center supports strategically placed hubs that help with timely in-season changes and decisions when necessary. So, everything from crop restriction changes that come last minute or poor weather, we'll always be there to assist you, every step of the way.

AgraCity is continuously adding new production locations, transportation options and cost-effective distribution solutions to minimize costs and bring value to the Canadian farms. We are planning significant changes in the upcoming years to further improve our distribution model and bring products to farms quicker and affordable than ever before.

*Our main warehouse in Saskatoon boasts over 68,000 square feet of space supported by a logistics and warehousing team of over 25 people.*





# KNOW YOUR GROUP CHEMISTRY

## GROUP 1

(Grass Control)

clethodim, clodinafop,  
fenoxaprop, pinoxaden,  
quizalofop, sethoxydim,  
tralkoxydim

## GROUP 2

(Grass & Broadleaf Control)

ethametsulfuron,  
foramsulfuron,  
florasulam, flucarbazone,  
halosulfuron,  
imazamethabenz,  
imazamox, imazapyr,  
imazethapyr,  
metsulfuron,  
nicosulfuron,  
pyroxsulam, rimsulfuron,  
thiencarbazone,  
thifensulfuron,  
tribenuron

## GROUP 3

(Grass & Broadleaf Control)

ethalfluralin,  
propyzamide, trifluralin

## GROUP 4

(Broadleaf Control)

2,4-D, 2,4-DB,  
aminocyclopyrachlor,  
aminopyralid, clopyralid,  
dicamba, dichlorprop,  
fluroxypyr, halauxifen,  
MCPA, MCPB,  
mecoprop-p, picloram,  
quinclorac

## GROUP 5

(Grass & Broadleaf Control)

atrazine, hexazinone,  
metribuzin, simazine

## GROUP 6

(Broadleaf Control)

bentazon, bromoxynil

## GROUP 8

(Grass & Broadleaf Control)

EPTC, triallate

## GROUP 9

(Grass & Broadleaf Control)

glyphosate

## GROUP 10

glufosinate

## GROUP 14

(Grass & Broadleaf Control)

acifluorfen, carfentrazone,  
flumioxazin, fomesafen,  
pyraflufen, saflufenacil,  
sulfentrazone

## GROUP 15

dimethanamid,  
metolachlor,  
pyroxasulfone

## GROUP 22

diquat, paraquat

## GROUP 27

pyrasulfotole,  
topramezone

## OTHER GROUPS

linuron (7), amitrol (11),  
diflufenyzopyr (19),  
diclobenil (20), quinclorac  
(26-grassy weeds)



## 2023 **AGRICULTURAL PRODUCT GUIDE**

**EMPOWERING  
YOUR AGRIBUSINESS**



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