



An Agricultural  
Sciences Company



**PRECISIONPAC**<sup>®</sup>  
APPLICATION INNOVATION

**2023** **AGRONOMIC**  
**GUIDE**

The flexibility of PrecisionPac<sup>®</sup> herbicides gives growers the power to fully customize their weed control.

The end result is:



High Performing  
Weed Control



Completely  
Customized  
Weed Control



Easy to Use



Right Product,  
Right Rate,  
Right Acre



Multiple  
Modes-of-Action



Pick Length  
Of Herbicide  
Activity



Reduced Waste



Constantly  
Evolving



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## PrecisionPac® herbicides available: Minimum and Maximum acres per dispense

Product Name	Rate / Acre (g/acre)	MIN Acres	MAX Acres
 <b>Burnoff Weed Control</b>			
NC-0050	6.07	40	320
NC-00439	7.08	50	320
DB-878	46.07	20	160
DB-878 PRO	47.08	50	160
CF herbicide	9	20	320
	14		
	18		
 <b>Extended Weed Control</b>			
SZ-75	57	20	120
SZ-0050	63.07	20	120
 <b>Post-Emergent Broadleaf Weed Control</b>			
PP-2525	12.14	20	320
PP-23235	13.15	50	320
PP-3317	12.15	20	320
DB-8454	52.64	20	130
Ally® (high rate)	3	50	320
Ally® (low rate)	2	50	320
 <b>Cross-Spectrum Grassy and Broadleaf Weed Control</b>			
CS-100-2525	40.14	20	200
CS-75-2525	33.14	20	220
CS-100-23235	41.15	50	200
CS-75-23235	34.15	50	220

# Burnoff Weed Control

**PRECISIONPAC**  
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- 4 NC-0050 herbicide
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# NC-0050 herbicide

## Hard-hitting burnoff weed control with maximum flexibility

PrecisionPac® NC-0050 herbicide gives glyphosate a boost in pre-seed, chemfallow and post-harvest applications. Its systemic activity gets right to the root of your toughest weed problems, yet it leaves you with maximum cropping flexibility so you can seed a wide variety of crops 24 hours after application. As a PrecisionPac herbicide, you also get the flexibility to customize your package size to fit your sprayer tank or field size.

Weeds Controlled (NC-0050 herbicide plus 0.5 L/ac glyphosate equivalent) <sup>†</sup> :		Stage
Canada fleabane Common ragweed	<b>Narrow-leaved hawk's-beard</b> Scentless chamomile <sup>1</sup>	Up to 8 cm
Common chickweed (up to 8 leaf) <b>Dandelion</b> Downy brome Flixweed Giant foxtail Green foxtail Hemp-nettle Kochia (except Group 2 & 9 resistant biotypes) Lady's-thumb Lamb's-quarters	Persian darnel Redroot pigweed Russian thistle Stinkweed Volunteer barley <b>Volunteer canola</b> (including glyphosate tolerant) Volunteer flax Volunteer wheat Wild mustard Wild oats	Up to 15 cm
Cow cockle	Wild buckwheat	Up to 3-leaf
White cockle <sup>1</sup>	Canada thistle <sup>1</sup>	Rosette
<sup>1</sup> Suppression. <sup>†</sup> Original 360 g/L formulation		

### PrecisionPac NC-0050 herbicide plus glyphosate on dandelion (Pre-seed burnoff)



41 days after application NC-0050 + glyphosate

41 days after application glyphosate alone

Carman, MB

## NC-0050 herbicide

**% Tank-mix Options:** PrecisionPac® NC-0050 herbicide can be tank-mixed with any glyphosate product plus Aim® EC herbicide, Authority® 480 herbicide (faba bean, field pea, soybean, spring wheat and durum wheat), 2,4-D Ester (summer fallow and post harvest), Authority® Supreme herbicide (field peas and soybeans) and Focus® herbicide (spring and winter wheat, soybeans).

**🕒 Timing:** Add PrecisionPac NC-0050 herbicide to your glyphosate for:

- pre-seed
- chemfallow
- post-harvest applications

**🔄 Crop Rotation:**

Replant Interval	Rotational Crop
<b>Pre-seed burnoff</b>	Seed spring wheat, winter wheat, durum, barley, oats, alfalfa, red clover, alsike clover (seed or forage production), smooth brome grass, meadow brome grass, timothy and creeping red fescue, canary seed and pulse crops (including dry bean, faba bean, field pea, lentils, lupin and soybean), crested and slender wheatgrass, meadow and tall fescue, hybrid brome grass, yellow sweet clover and sainfoin
<b>Chemfallow</b>	Allow at least 10 days after treatment before tillage. Any of the above crops can be seeded 24 hours after application. Two (2) months after application, you can also seed canola, flax.
<b>Fall application</b>	Seed winter wheat 24 hours after application. Next spring you can seed any spring wheat (including durum), spring barley, oats, red clover, alsike clover, smooth brome grass, meadow brome grass, timothy, creeping red fescue, canola, flax, canary seed, field corn, alfalfa or pulse crops (including chickpeas, dry bean, faba bean, field pea, lentils, lupin and soybean), crested and slender wheatgrass, meadow and tall fescue, hybrid brome grass, yellow sweet clover and sainfoin or the fields may be summerfallowed.

*\*Note: injury may occur on coarse-textured soils, low in organic matter (less than 3%) or in fields with variable soils, gravely areas, sandy areas or eroded knolls. Avoid planting crops in soils containing more than 50% sand. Heavy rainfall soon after application may result in visual crop injury or possible yield reduction. Conditions such as thin crop stand, sandy soil or low soil organic matter may increase the severity of injury.*

**? Application Information:**

**Rates:** 6.07 g/ac

**Acres per grower bag: Minimum:** 40 acres; **Maximum:** 320 acres

**Surfactant:** Not required when tank-mixed with a minimum of 0.5 L/ac equivalent of glyphosate.

**Water Volume:** Minimum 5-10 imp. gal/ac

**Mixing Instructions:** For complete mixing instructions, see page 47.

**Rainfastness:** If rain occurs soon after application control may be reduced. Environmental conditions that slow the drying of the spray mixture on the foliage such as high relative humidity, cool air temperatures or cloud cover, may increase the time required.

## NC-00439 herbicide

### Multi-active burnoff with extended control

PrecisionPac® NC-00439 herbicide offers extended control of key broadleaf weeds in pre-seed, chemfallow and post-harvest applications. It can be applied up to 24 hours prior to seeding wheat (spring, durum, winter) or spring barley. When tank-mixed with glyphosate, PrecisionPac NC-00439 herbicide can provide up to 15 days of extended control\* on some of the toughest weeds in your fields, including cleavers, dandelion, narrow-leaved hawk's-beard and volunteer canola.

Weeds Controlled (NC-00439 herbicide plus 0.5 L/ac glyphosate equivalent) <sup>†</sup> :		Stage
Canada fleabane <b>Cleavers</b> <sup>E</sup> Common ragweed	<b>Narrow-leaved hawk's-beard</b> <sup>E</sup> <b>Scentless chamomile</b> Night flowering catchfly <sup>1</sup>	Up to 8 cm
Chickweed		1 - 6 leaf
<b>Dandelion</b> <sup>E</sup> Downy brome Flixweed Giant foxtail Green foxtail Hemp-nettle Kochia (except Group 2 & 9 resistant biotypes) Lady's-thumb Lamb's-quarters Persian darnel	Redroot pigweed Russian thistle Stinkweed Volunteer barley <b>Volunteer canola</b> <sup>E*</sup> (including glyphosate tolerant) Volunteer flax Volunteer wheat Wild mustard Wild oats	Up to 15 cm
Cow cockle	Wild buckwheat	Up to 3 leaf
<b>White cockle</b>	Canada thistle <sup>1</sup>	Rosette
<sup>1</sup> Suppression. <sup>†</sup> Original 360 g/L formulation. <sup>E</sup> Extended control. <sup>E*</sup> Will not provide extended control of Group 2 herbicide tolerant canola.		

### PrecisionPac NC-00439 herbicide plus glyphosate



41 days after application glyphosate alone



41 days after application NC-00439 + glyphosate

## NC-00439 herbicide

**% Tank-mix Options:** PrecisionPac<sup>®</sup> NC-00439 herbicide can be tank-mixed with any glyphosate product plus Aim<sup>®</sup> EC herbicide (spring and winter wheat).

**🕒 Timing: Pre-seed:** Wait a minimum of 24 hours after the application of PrecisionPac NC-00439 herbicide and glyphosate before planting wheat (spring, durum, winter) or barley.

*Note: Do not use on highly variable soils that have gravelly or sandy areas, eroded knolls or calcium deposits. Heavy rainfall soon after application may result in visual crop injury or possible yield reduction. Conditions such as thin crop stand, sandy soil or low soil organic matter may increase the severity of injury.*

**Chemfallow:** Allow at least 10 days after treatment before tillage.

**Post-harvest:** Apply to fields where wheat, barley or oats will be seeded next spring or fields may be summerfallowed.

*Note: Limit of one application of PrecisionPac NC-00439 or any other herbicide containing metsulfuron, per growing season.*

**🔄 Crop Rotation:**

Replant Interval	Rotational Crop
<b>24 hours</b>	Seeded to wheat (spring, durum or winter) or spring barley
<b>10 months</b>	Canola, dry beans, fababeans, field corn, flax, lentils, peas and soybeans
<b>Post-harvest</b>	Wheat (spring, durum), barley, oats may be seeded anytime in the following season

**? Application Information:**

**Rates:** 7.08 g/ac

**Acres per grower bag: Minimum:** 50 acres; **Maximum:** 320 acres

**Surfactant:** Not required when tank-mixed with a minimum of 0.5 L/ac equivalent of glyphosate. If applying less than 0.5 L/ac glyphosate rate, the addition of a recommended non-ionic surfactant (NIS) at 3.5 L per 1000 L of spray solution (0.35% v/v) is required.

**Water Volume:** Minimum 5-10 imp. gal/ac

**Mixing Instructions:** For complete mixing instructions, see page 47.

**Rainfastness:** If rain occurs soon after application, control may be reduced. Environmental conditions that slow the drying of the spray mixture on the foliage, such as high relative humidity, cool air temperatures or cloud cover, may increase the time required.

**POWERED BY SOLUMAX<sup>®</sup>**

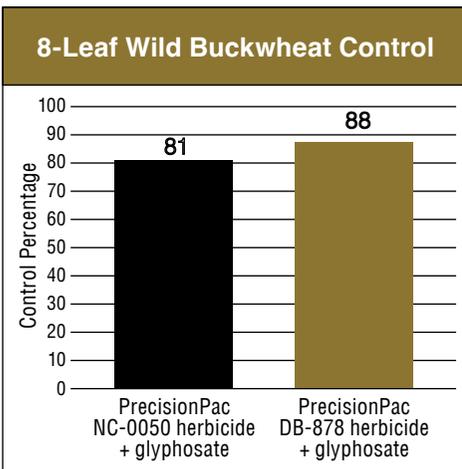
Refer to the PrecisionPac NC-00439 herbicide label for complete use instructions.

# DB-878 herbicide

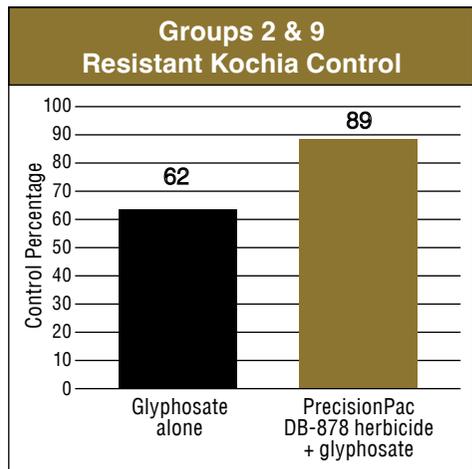
## Resistance management customized to your weed spectrum

PrecisionPac® DB-878 herbicide is a customized burnoff add-in that gets right to the root of your toughest weed problems in wheat (spring, durum or winter), spring barley and oats. With its built-in multiple modes of action, PrecisionPac DB-878 herbicide provides an excellent resistance management tool for pre-seed control of key broadleaf weeds like kochia, narrow-leaved hawk's-beard, dandelion and wild buckwheat.

Weeds Controlled (DB-878 herbicide plus 0.5 L/ac glyphosate equivalent) <sup>†</sup> :		Stage
Canada fleabane <sup>1</sup> (Up to 10 cm, including Gr. 9 resistant biotypes) Common ragweed Kochia (including Gr. 2 & 9 resistant biotypes)	Narrow-leaved hawk's-beard Scentless chamomile <sup>1</sup>	Up to 8 cm
Cleavers Dandelion Downy brome Flixweed Giant foxtail Green foxtail Hemp-nettle Lady's-thumb Lamb's-quarters Persian darnel	Redroot pigweed Russian thistle Stinkweed Tufted vetch <sup>1</sup> Volunteer barley Volunteer canola (including glyphosate-tolerant varieties) Volunteer flax Volunteer wheat Wild mustard Wild oats	Up to 15 cm
Cow cockle		Up to 3 leaf
Common chickweed	Wild buckwheat	Up to 8 leaf
Canada thistle <sup>1</sup>	White cockle <sup>1</sup>	Rosette
<sup>1</sup> Suppression.		
<sup>†</sup> Original 360 g/L formulation.		



Source: FMC Trials, 2017, 42-53 DAA with no crop competition



Source: FMC Trials, 2015, 39-57 DAA

## DB-878 herbicide

**% Tank-mix Options:** PrecisionPac® DB-878 herbicide must be mixed with a glyphosate product. May be tank mixed with Aim® EC herbicide, 2,4-D Ester, Focus® herbicide (spring and winter wheat), or Authority® 480 herbicide (spring wheat and durum wheat).

**🕒 Timing:** Add PrecisionPac DB-878 herbicide to your glyphosate for pre-seed, chemfallow or post-harvest.

Replant Interval	Rotational Crop
<b>24 hours</b>	<b>Pre-seed burnoff:</b> Wheat (spring, durum or winter), spring barley or oats
<b>Following season</b>	<b>Chemfallow:</b> Any crop
<b>Following Spring</b>	<b>Post-harvest:</b> Spring and durum wheat, barley and oats, canola, field corn, lentils, soybean, or white beans

### **? Application Information:**

**Rates:** 46.07 g/ac

**Acres per grower bag:** **Minimum:** 20 acres; **Maximum:** 160 acres

**Surfactant:** Not required when tank-mixed with a minimum of 0.5 L/ac equivalent of glyphosate.

**Water volume:** Minimum 5-10 imp. gal/ac

**Mixing Instructions:** For complete mixing instructions, see page 47.

**Rainfastness:** If rain occurs soon after application, control may be reduced. Environmental conditions that slow the drying of the spray mixture on the foliage, such as high relative humidity, cool air temperatures or cloud cover, may increase the time required.

# DB-878 PRO herbicide

## Trusted kochia control with extended control of key weeds

PrecisionPac® DB-878 PRO is a new blend that can be sprayed ahead of wheat (spring, durum, or winter) and barley. Get trusted kochia control without sacrificing extended control on cleavers, dandelion, narrow-leaved hawk’s-beard, or volunteer canola.

Weeds Controlled			Stage
Canada fleabane Cleavers <sup>E</sup>	Common ragweed Kochia (including Gr. 2 & 9 resistant biotypes)	Narrow-leaved hawk’s-beard <sup>E</sup> Scentless chamomile	Up to 8cm
Dandelion <sup>E</sup> Downy brome Flixweed Giant foxtail Green foxtail Hemp-nettle	Lady’s-thumb Lamb’s-quarters Persian darnel Redroot pigweed Russian thistle Stinkweed	Volunteer barley Volunteer canola (including glyphosate tolerant) <sup>E</sup> Volunteer flax Volunteer wheat Wild mustard Wild oats	Up to 15cm
Cow cockle	Wild Buckwheat		Up to 3 leaf
Chickweed			1-6 leaf
White cockle			Rosette
Night flowering catchfly*	Canada thistle*		

\* Suppression.      <sup>E</sup> Residual Control

**% Tank Mix Options:** PrecisionPac DB-878 PRO must be tank-mixed with a glyphosate product. Other tank-mix partners include Aim® EC herbicide.

**🕒 Timing:**

Replant Interval	Rotational Crop
<b>10 months</b>	Canola, dry beans, faba beans, field corn, flax, lentils, peas and soybeans.
<b>Following Spring</b>	Post-harvest: Spring and durum wheat, barley, oats

**? Application Information:**

**Rates:** 47.08 g/ac

**Acres per grower bag: Minimum:** 50 acres; **Maximum:** 160 acres

**Surfactant:** Not required when tank-mixed with a minimum of 0.5L/ac equivalent of glyphosate.

**Water Volume:** Minimum 5-10 imp. gal/ac

**Mixing Instructions:** For complete mixing instructions, see page 47.

**Rainfastness:** If rain occurs soon after application, control may be reduced. Environmental conditions that slow the drying of the spray mixture on the foliage, such as high relative humidity, cool air temperatures or cloud cover, may increase the time required.

## CF herbicide

### A flexible tank-mix partner for enhanced burnoff

New PrecisionPac® CF herbicide provides effective, quick burnoff of hard-to-control weeds, all with the customizable package size and rates that make PrecisionPac herbicides unique. This Group 14 herbicide also controls glyphosate-resistant biotypes and has a low use rate for application in a broad range of crops. Plus, with multiple rate and tank-mix options, you get the best agronomic fit for your weed spectrum and timing.

Product Use and Weed Control	Rate	
For newly emerged weeds or when using with a tank-mix partner: Black nightshade (up to 5 cm tall) Eastern black nightshade (up to 5 cm tall) Lamb's-quarters (up to 7.5 cm tall) Morning glory (up to 3 leaf) Redroot pigweed Tall waterhemp (up to 5 cm tall) Velvetleaf	9 g/ac	All blends available in 20-acre to 320-acre bags.
For wider weed spectrum, moderate pressure and larger weeds: <i>All the above weeds, plus</i> Flixweed Hairy nightshade Lamb's-quarters Morning glory Pennsylvania smartweed (seedling) Pigweed (prostrate, smooth, tumble) Purslane Round-leaved mallow Stinkweed Tansy mustard Waterhemp (tall, common)	14 g/ac	
Large overwintering cleavers and heavy/larger weeds <i>All the above weeds, plus</i> Black nightshade Carpetweed Cleavers Cocklebur Eastern black nightshade Jimsonweed Kochia Russian thistle (up to 5 cm tall) Shepherd's-purse Volunteer canola (up to 4 leaf stage)*	18 g/ac	
*All herbicide-tolerant canola		

## CF herbicide

CF-18 herbicide on kochia 21 DAA



CF-18 Herbicide + Glyphosate (0.5 REL/acre)

Glyphosate (0.5 REL/ac)

Source: CAN19-156 FMC Internal Trials, Wetaskiwin, AB 2019



### Crops:

**Pre-seed burnoff:** Barley, canola, chickpea, corn (field, sweet and pop), dry bean, field pea, oats, soybean, wheat (spring, durum, winter)

**Fallow systems:** Same as above



### Tank-mix options:

Tank-mix with glyphosate recommended. 2,4-D ester, Express® SG herbicide, Express® PRO herbicide, Express® FX herbicide, MCPA, Authority® 480 herbicide, Authority® Supreme herbicide, Command® 360 ME herbicide, PrecisionPac® NC-0050, Nufarm Koril® 235, IPCO Brotex® 240, 480 and 4AT, Bromotril 240 EC and Bromotril II 240 EC, PrecisionPac® DB-878, PrecisionPac® NC-00439



**Timing:** Pre-seed and pre-emergence application.



### Application Information:

**Surfactant:** None required when tank-mixing with glyphosate. Use Agral® 90 or Ag-Surf® at 0.25% v/v or Merge® at 1% v/v if used alone or with certain tank mixes as indicated on the label. Coverage of the weeds is essential for good control.

**Water Volume:** Minimum 5-10 imp gal/ac.

**Rainfastness:** CF herbicide is rapidly absorbed through the foliage of plants. Rainfall soon after application may reduce efficacy.

**Tank-mixtures:** See page 47 for mixing instructions.





# Extended Weed Control

**PRECISIONPAC**<sup>®</sup>  
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- 16 SZ-75 herbicide
- 18 SZ-0050 herbicide

## SZ-75 herbicide

### Give your crop the clean start it deserves

PrecisionPac<sup>®</sup> SZ-75 herbicide is a flexible pre-emergent Group 14 herbicide for soybeans, field peas, chickpeas and wheat (spring and durum).

PrecisionPac SZ-75 herbicide has best-in-class control of kochia, including Group 2, Group 4 and Group 9 resistant biotypes.

Only use PrecisionPac SZ-75 herbicide or any product containing sulfentrazone one out of every two years.

#### Weeds controlled

Kochia (including Group 2 and 9 bio types)

Russian thistle (suppression)



SZ-75 on chickpeas, Gravelbourg, SK. 3 foot drill miss. 57 g/ac applied May 2, 2020. Picture taken June 9, 2020

# SZ-75 herbicide

 **Crops:** Chickpeas, field peas, soybeans, spring wheat, durum wheat

 **Tank-mix Options:**

(Consult the tank-mix partner label for specific application use and restrictions. Always follow the most restrictive label)

- **Glyphosate**
- **NC-0050 + glyphosate**  
**Crops:** field peas, soybeans, wheat (durum and spring)
- **Aim® EC herbicide**
- **DB-878**  
**Crops:** wheat (durum and spring)

 **Timing:**

Apply pre-plant or post-seeding (up to 3 days after seeding).

*Note: PrecisionPac® SZ-75 herbicide requires 1/2" of rainfall for activation. For best control, SZ-75 herbicide should be applied prior to weed emergence. To control emerged weeds, tank mix with a supported burnoff tank mix partner.*

 **Crop Rotation:**

Replant Interval	Rotational Crop
<b>Anytime</b>	Chickpeas, field peas, soybeans, spring wheat, durum wheat
<b>4 months</b>	Winter wheat
<b>12 months</b>	Alfalfa, barley, canola, field corn, faba bean, flax, sunflower
<b>24 months</b>	Lentils, sorghum, sweet corn, popcorn

**In case of drought in any of those years, a subsequent application of PrecisionPac SZ-75 herbicide should be further delayed by the equivalent number of years in which drought occurred.**

 **Application Information:**

**Rates:** 57 g/ac

**Acres per grower bag:** Minimum: 20 acres; Maximum: 120 acres

**Water volume:** Minimum 10 imp gal/ac

PrecisionPac SZ-75 herbicide should be applied in a uniform broadcast soil application.

**Restrictions:**

Make one pre-plant or pre-emergence application per 24 months.

Do not apply to soils classified as coarse-textured soils.

Do not apply in fine-textured soils with less than 1.5% organic matter.

Do not use on any type of soils with an organic matter content greater than 6%.

**Do not use on soils with a pH of 7.8 or greater.**

Do not tank mix with Chateau® herbicides (flumioxazin) or with other products containing sulfentrazone.

Do not apply SZ-75 herbicide (or any other product containing sulfentrazone) to spring wheat if an application of Focus® herbicide (or any other product containing pyroxasulfone) was applied in the previous fall.

## SZ-0050 herbicide

### Enhancing control during weed-friendly conditions

Two active ingredients give PrecisionPac® SZ-0050 herbicide consistent control, stopping the growth of a wide range of broadleaf weeds – including Group 2, Group 4 and Group 9 resistant kochia. For use in field peas, soybeans and spring wheat (including durum), PrecisionPac SZ-0050 herbicide also controls narrow-leaved hawk’s-beard and volunteer canola. Warm and moist growing conditions enhance the effectiveness of PrecisionPac SZ-0050 herbicide by maximizing foliar uptake and contact activity.

Weeds controlled: PrecisionPac® SZ-0050 herbicide plus Glyphosate																					
Extended Control	Kochia (including Group 2 and Group 9 resistant biotypes) Russian thistle*																				
Up to rosette	Canada thistle* White cockle*																				
Up to 8 cm	Canada fleabane Common ragweed Narrow-leaved hawk’s-beard Scentless camomile*																				
Up to 15 cm	<table border="0"> <tr> <td>Cleavers</td> <td>Persian darnel</td> </tr> <tr> <td>Dandelion</td> <td>Redroot pigweed</td> </tr> <tr> <td>Downy brome</td> <td>Russian thistle</td> </tr> <tr> <td>Flixweed</td> <td>Stinkweed</td> </tr> <tr> <td>Giant foxtail</td> <td>Volunteer barley</td> </tr> <tr> <td>Green foxtail</td> <td>Volunteer canola (including glyphosate tolerant varieties)</td> </tr> <tr> <td>Hemp-nettle</td> <td>Volunteer flax</td> </tr> <tr> <td>Kochia</td> <td>Volunteer wheat</td> </tr> <tr> <td>Lady’s thumb</td> <td>Wild mustard</td> </tr> <tr> <td>Lamb’s-quarters</td> <td>Wild oats</td> </tr> </table>	Cleavers	Persian darnel	Dandelion	Redroot pigweed	Downy brome	Russian thistle	Flixweed	Stinkweed	Giant foxtail	Volunteer barley	Green foxtail	Volunteer canola (including glyphosate tolerant varieties)	Hemp-nettle	Volunteer flax	Kochia	Volunteer wheat	Lady’s thumb	Wild mustard	Lamb’s-quarters	Wild oats
Cleavers	Persian darnel																				
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Flixweed	Stinkweed																				
Giant foxtail	Volunteer barley																				
Green foxtail	Volunteer canola (including glyphosate tolerant varieties)																				
Hemp-nettle	Volunteer flax																				
Kochia	Volunteer wheat																				
Lady’s thumb	Wild mustard																				
Lamb’s-quarters	Wild oats																				
Up to 3-leaf stage	Cow cockle Wild buckwheat																				
Up to 8-leaf stage	Common chickweed																				

\* Suppression

## SZ-0050 herbicide

 **Crops:** Field peas, soybeans, spring wheat, durum wheat

 **Tank-mix Options:** PrecisionPac® SZ-0050 herbicide must be tank-mixed with glyphosate at a minimum of 0.5 REL/acre of glyphosate.

 **Timing:**

PrecisionPac SZ-0050 herbicide can be applied pre-plant. Fields treated with this tank-mix can be seeded to field peas, soybeans or spring wheat (including durum) a minimum of 24 hours after application.

 **Crop Rotation:**

Replant Interval	Rotational Crop
<b>Anytime</b>	Field peas, soybeans, spring wheat and durum wheat can be planted 24 hours
<b>4 months</b>	Winter wheat
<b>12 months</b>	Alfalfa, barley, broccoli, cabbage, canola, cauliflower, chickpea, corn (field), flax, faba bean, horseradish, potatoes, sunflowers, tame mustard, tomato (transplants)
<b>24 months</b>	Corn (sweet and pop), lentils, sorghum

**In case of drought in any of those years, a subsequent application of PrecisionPac SZ-0050 herbicide should be further delayed by the equivalent number of years in which drought occurred.**

 **Application information**

**Rate:** Apply PrecisionPac SZ-0050 herbicide at 63.07 grams/acre tank mixed with glyphosate (minimum 0.5 REL/acre).

Injury to pulse crops may occur on coarse-textured soils, low in organic matter (less than 3%), or in fields with variable soils, gravelly areas, sandy areas or eroded knolls. Avoid spraying PrecisionPac SZ-0050 herbicide when planting pulse crops in soils containing more than 50% sand.

**Water volume:** Minimum 10 imp gal/ac PrecisionPac SZ-0050 herbicide should be applied in a uniform broadcast soil application.

**Mixing instructions:** For complete mixing instructions, see page 47.

**Rain activation:** PrecisionPac SZ-0050 herbicide requires a minimum of 1/2" of rain or irrigation water to be effective.

**Restrictions:**

Make one pre-plant or pre-emergence application per season.

Do not apply to soils classified as coarse-textured soils.

Do not apply in fine-textured soils with less than 1.5% organic matter.

Do not use on any type of soils with an organic matter content greater than 6%.

**Do not use on soils with a pH of 7.8 or greater.**

Do not tank mix with Chateau® herbicides (flumioxazin) or with other products containing sulfentrazone.

Do not apply SZ-0050 herbicide (or any other product containing sulfentrazone) to spring wheat if an application of Focus® herbicide (or any other product containing pyroxasulfone) was applied in the previous fall.



# Post-Emergent Broadleaf Weed Control

Post-Emergent  
Broadleaf Weed Control

**PRECISIONPAC**<sup>®</sup>  
APPLICATION INNOVATION

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## PP-2525 herbicide

### Gentle on crops, tough on the toughest weeds

For consistent in-crop weed control in spring wheat, winter wheat, durum, barley and oats\*, PrecisionPac® PP-2525 herbicide controls a wide spectrum of weeds, including narrow-leaved hawk's-beard, hemp-nettle, redroot pigweed, cow cockle and volunteer canola. A fit in all major soil zones, PrecisionPac PP-2525 herbicide offers tank-mix and re-cropping flexibility.

\* only when tank-mixed with MCPA Ester

#### Weeds controlled

Annual smartweed	Kochia <sup>1</sup> (including Group 2 resistant biotypes, seedling up to 10 cm)	Scentless chamomile <sup>2</sup>
Cleavers <sup>1</sup>	Lamb's-quarters	Shepherd's-purse <sup>1</sup>
Common chickweed (1–6 leaf)	Narrow-leaved hawk's-beard	Stinkweed
Cow cockle	Night flowering catchfly	Stork's-bill <sup>1</sup>
Dandelion <sup>2</sup>	Redroot pigweed	Volunteer canola <sup>3</sup>
Flixweed	Round-leaved mallow <sup>1</sup>	Volunteer flax <sup>1</sup>
Hemp-nettle	Russian thistle	Wild buckwheat
	Perennial sow thistle	Wild mustard
		White cockle <sup>2</sup>

#### Weeds suppressed

Canada thistle (≤15 cm)

<sup>1</sup> For control, tank-mix with Perimeter® II.

<sup>2</sup> For control, tank-mix with MCPA Ester.

<sup>3</sup> Tank-mix with MCPA Ester to control Group 2 herbicide tolerant canola.

#### PrecisionPac® PP-2525 + Perimeter® II on Narrow-leaved hawk's-beard



DOA

16 DAA

32 DAA

47 DAA

## PP-2525 herbicide

 **Crops:** Wheat (spring, durum, winter), barley and oats\*  
\* only when tank-mixed with MCPA Ester

 **Tank-mix Options:**

- 2,4-D Ester 700LV
- Assert 300 SC
- Axial®
- Axial® + MCPA Ester
- Axial® Xtreme
- Banvel® II
- Brazen™ II
- Cirray™
- Clodinafop
- Everest® 3.0AG /Sierra® 3.0AG
- MCPA Ester
- Perimeter® II
- Puma® Advance
- Simplicity™ GoDri™
- Traxos®
- Trondus™
- Varro™

\*Please refer to tank mix partner for labeled crops.

 **Timing:** Wheat (spring, durum and winter) and barley: 2-leaf to just before the flag leaf.  
Oats with the addition of MCPA Ester: 3-leaf to just before the flag leaf.

 **Crop Rotation:**

Replant Interval	Rotational Crop
<b>2 months</b>	Alfalfa, canola, flax and lentils.
<b>Following Season</b>	All crops

 **Application Information:**

**Rates:** 12.14 g/ac

**Acres per grower bag: Minimum:** 20 acres; **Maximum:** 320 acres

**Surfactant:** Add a registered surfactant such as Agral® 90, Ag-Surf®, Liberate Adjuvant, Ag-Surf® II, HiActivate® Non-ionic Liquid Spreader/Activator, Super Spreader Adjuvant or Enhance® at a rate of 2 L per 1000 L spray solution when used alone or when tank mixing with 2, 4-D Ester or Perimeter II. When tank-mixing with a grass herbicide, use the surfactant provided with the product.

**Water Volume:** Minimum 5-10 imp. gal/ac.

**Rainfastness:** One (1) hour

**Mixing Instructions:** For complete mixing instructions, see page 47.

**PrecisionPac PP-2525 herbicide is also registered for aerial application.**

## PP-23235 herbicide

### Biennial and perennial weed specialist for dark brown, black and grey soil zones

PrecisionPac® PP-23235 herbicide provides premium control of a broad spectrum of weeds, with particularly good performance on perennial and biennial weeds.

#### Weeds controlled

Annual smartweed	Kochia <sup>2</sup> (Up to 10cm)	Shepherd's-purse (up to 20 cm)
Annual sow thistle*	Lamb's-quarters	Stinkweed
Canada thistle <sup>1</sup> (top growth)	Narrow-leaved hawk's-beard (Up to 20cm)	Stork's-bill
Cleavers <sup>2</sup> (1-6 whorl)	Night-flowering catchfly	Volunteer canola** (2-4 leaf stage)
Common chickweed (up to 6 leaf)	Perennial sow thistle	Volunteer flax <sup>2</sup> (up to 12cm in height)
Cow cockle	Redroot pigweed	<b>White cockle</b>
Dandelion (spring or fall rosettes up to 20 cm in diameter)	Round-leaved mallow (1–6 leaf)	Wild buckwheat
Flixweed	Russian thistle	Wild mustard
Hemp-nettle	<b>Scentless chamomile</b>	

<sup>1</sup> Suppression.

<sup>2</sup> For control tank-mix with Perimeter® II

\* For control, tank-mix with MCPA Ester.

\*\* Including Group 2 herbicide tolerant canola when tank-mixed with MCPA.

*Note: DO NOT use PrecisionPac PP-23235 herbicide in the same year if you've used a pre-seed burnoff with PrecisionPac® NC-00439 herbicide or Express® PRO herbicide.*

#### PrecisionPac® PP-23235 + Perimeter® II on dandelion



2 DAA



20 DAA

POWERED BY SOLUMAX®

# PP-23235 herbicide

 **Crops:** Wheat (spring, durum) and barley

 **Tank-mix Options:**

- 2,4-D Ester LV 700
- Axial® + Perimeter® II
- Axial® + MCPA Ester + Perimeter II
- Axial® Xtreme
- Brazen™ II
- Cirray™
- Clodinafop
- Everest® 3.0AG / Sierra® 3.0AG
- Perimeter II
- Perimeter II + MCPA Ester
- Puma® Advance
- Simplicity™ GoDri™
- Trondus™
- Varro™

\*Please refer to tank mix partner for labeled crops.

 **Timing:** Wheat (spring, durum) and barley: 2-leaf to just before the flag leaf

 **Crop Rotation:**

Replant Interval	Rotational Crop
<b>10 months</b>	Canola, lentils, dry beans, faba beans, field corn, soybeans, oats, field peas and flax

 **Application Information:**

**Rates:** 13.15 g/ac

**Acres per grower bag:** Minimum: 50 acres; Maximum: 320 acres

**Surfactant:** Add a registered surfactant such as Agra® 90, Ag-Surf®, Liberate Adjuvant, Ag-Surf® II, HiActivate® Non-ionic Liquid Spreader/Activator, Super Spreader Adjuvant or Enhance® at a rate of 2 L per 1000 L spray solution when used alone or when tank mixing with 2, 4-D Ester or Perimeter II. When tank-mixing with a grass herbicide, use the surfactant provided with the product.

**Water Volume:** Minimum 5-10 imp. gal/ac.

**Rainfastness:** One (1) hour.

**Mixing Instructions:** For complete mixing instructions, see page 47.

## PP-3317 herbicide

### Proven performance with maximum flexibility

PrecisionPac® PP-3317 herbicide delivers exceptional value with proven performance on wild buckwheat (up to the 5-leaf stage), hemp-nettle, narrow-leaved hawk's-beard and chickweed in spring wheat, durum, barley, oats and winter wheat. You can further customize your weed control with 20 tank-mix options, including Perimeter® II for improved control of kochia and cleavers. Plus, it leaves you with complete re-cropping flexibility the following year.

#### Weeds controlled

Ball mustard	Hemp-nettle	Stinkweed
Chickweed (1–6 leaf)	Lady's-thumb	Tartary buckwheat
Common groundsel	Lamb's-quarters	Volunteer canola <sup>1</sup>
Corn spurry	Narrow-leaved hawk's-beard	Volunteer sunflower
Cow cockle	Redroot pigweed	Wild buckwheat (up to the 5-leaf stage)
Flixweed	Russian thistle	Wild mustard
Green smartweed	Shepherd's purse	

#### Weeds suppressed

Canada thistle	Scentless chamomile	Stork's-bill (2–6 leaf)
Cleavers (1-3 whorls)	Sow-thistle	Toadflax
Round-leaved mallow		

<sup>1</sup>For control of Group 2 herbicide tolerant varieties tank-mix with MCPA Ester.

#### Wild buckwheat



One (1) week after application

Three (3) weeks after application

## PP-3317 herbicide

**Crops:** Wheat (spring, durum, winter), barley, oats and grass species (forage and seed production), meadow bromegrass, pubescent wheatgrass, smooth bromegrass, tall wheatgrass, creeping red fescue, slender wheatgrass, tall fescue, streambank wheatgrass, orchard grass, northern wheatgrass, crested wheatgrass, western wheatgrass, intermediate wheatgrass, Kentucky bluegrass (established only)

**Tank-mix Options:**

- 2,4-D
- Assert®
- Attain®
- Axial® / Brazen®
- Axial® Xtreme
- Banvel® II
- Cirray™
- Curtail® M
- Clodinafop
- Everest® 3.0AG / Sierra® 3.0AG
- Everest 3.0 + 2,4-D (Amine or Ester)
- Lontrel™
- MCPA
- Perimeter® II
- Puma® Advance
- Simplicity™ GoDri™
- Traxos® (wild oats only)
- Varro®

**Timing:** Wheat (spring, durum, winter), oats, barley and grass stands:  
2-leaf to full flag leaf

**Crop Rotation: Two (2) months:** Alfalfa, canola, flax, and lentils  
**Following year:** No re-cropping restrictions

**Application Information:**

**Rates:** 12.15 g/ac

**Acres per grower bag: Minimum:** 20 acres; **Maximum:** 320 acres

**Surfactant:** Add a registered non-ionic surfactant (NIS) at 2 L per 1000 L of spray solution. When tank-mixing with a grass herbicide, use the surfactant provided with the product.

**Water Volume:** Minimum 5 imp. gal/ac

**Rainfastness:** One (1) hour

**Aerial Application:** PrecisionPac® PP-3317 herbicide is registered for aerial application. See label for further details.

**Mixing Instructions:** Ensure that PrecisionPac PP-3317 herbicide is fully dissolved before adding tank-mix partners. For complete mixing instructions, see page 47.

# DB-8454 herbicide

## Weed control for the brown soil zone

PrecisionPac® DB-8454 herbicide provides control of the toughest weeds in the brown soil zones, especially when it comes to annual weeds like wild buckwheat, stinkweed, volunteer canola and flixweed. It also offers solid control of Group 2-resistant kochia, narrow-leaved hawk's-beard, dandelion and Russian thistle. It contains both Groups 2 and 4 to help manage weed resistance and can be used in spring wheat, durum and barley.

Weeds controlled		
Annual smartweed (Green smartweed and Lady's-thumb)	Corn spurry	<b>Russian thistle</b>
<b>Dandelion</b> (spring or fall rosettes <15 cm in diameter)	Cow cockle	<b>Wild buckwheat</b> (up to 5-leaf)
Ball mustard	Flixweed	Shepherd's purse
Chickweed (1–6 leaf)	Hemp-nettle	Stinkweed
Common groundsel	<b>Kochia</b> (seedling to 8-leaf stage) (including Group 2-resistant)	Tartary buckwheat
	Lamb's-quarters	Volunteer canola*
	<b>Narrow-leaved hawk's-beard</b>	Volunteer sunflower
	Redroot pigweed	Wild mustard
Weeds suppressed		
Canada thistle	Scentless chamomile	Stork's-bill (2–6 leaf)
Cleavers (1–3 whorls)	Sow thistle (<15 cm in height)	Toadflax (<15 cm in height)
Round-leaved mallow (2-6 leaf)		
*excluding group 2 herbicide tolerant canola		

## DB-8454 herbicide

 **Crops:** Wheat (spring, durum) and barley

 **Tank-mix Options:**

- Clodinafop
- Everest® 3.0AG / Sierra® 3.0AG
- Perimeter® II
- Traxos®

\*Please refer to tank mix partner for labeled crops.

 **Timing:** Wheat (spring, durum) and barley: 2-leaf to 5-leaf

 **Crop Rotation:** Any crop can be seeded the year following the application of PrecisionPac® DB-8454 herbicide.

 **Application Information:**

**Rates:** 52.64 g/ac

**Acres per grower bag:** **Minimum:** 20 acres; **Maximum:** 130 acres

**Surfactant:** Add a registered surfactant such as Agral® 90, Ag-Surf® or Citowett® Plus at a rate of 2 L per 1000 L of spray solution. When tank-mixing with a grass herbicide, use the surfactant provided with the product.

**Water Volume:** Minimum 5-10 imp. gal/ac

**Rainfastness:** Four (4) hours

**Aerial Application:** PrecisionPac DB-8454 herbicide is registered for aerial application. See label for further details.

**Mixing Instructions:** Ensure that PrecisionPac DB-8454 herbicide is fully dissolved. For complete mixing instructions, see page 47.



# Cross-Spectrum Grassy and Broadleaf Weed Control

**PRECISIONPAC**  
APPLICATION INNOVATION

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- 34 CS-75-2525 herbicide
- 36 CS-100-23235 herbicide
- 38 CS-75-23235 herbicide
- 40 PrecisionPac® Cross Spectrum herbicides

# CS-100-2525 herbicide

## One-pass grassy and broadleaf weed control tailored to your farm

PrecisionPac® CS-100-2525 herbicide offers tailor-made, one pass weed control for spring and durum wheat. PrecisionPac CS-100-2525 herbicide delivers outstanding control of your toughest broadleaf and grassy weeds, including Group 1-resistant wild oats, Japanese brome, dandelion<sup>1</sup> and narrow-leaved hawk's-beard. As a PrecisionPac herbicide, you also get the flexibility to customize your package size to fit your sprayer tank or field size.

### Grassy weeds controlled

Barnyard grass (1-5 leaf)	Green foxtail <sup>1</sup> (1-5 leaf)	Wild oats (up to 4 leaf, 2 tiller)
Downy brome <sup>1</sup> (2-6 leaf, 4 tiller)	Japanese brome (1-6 leaf)	Yellow foxtail (1-5 leaf)
	Persian darnel <sup>1</sup> (1 - 4 leaf, 2 tiller)	

### Broadleaf weeds controlled

Annual smartweed (green smartweed, lady's thumb)	Flixweed	Shepherd's purse (up to 20 cm tall)
Canada thistle <sup>1</sup> (up to 30 cm tall, pre-bud)	Hemp-nettle	Stinkweed (up to 30 cm tall)
Cleavers (up to 6 whorl)	Kochia <sup>3</sup>	Stork's bill <sup>3</sup> (1-6 leaf)
Common chickweed (up to 10 cm)	Lamb's-quarters	Volunteer tolerant canola <sup>2</sup> (1-6 leaf)
Corn spurry (up to 2 whorl stage, <10 cm in height)	Narrow-leaved hawk's-beard	Volunteer flax <sup>3</sup> (up to 12 cm in height)
Cow cockle	Night-flowering catchfly	White cockle <sup>1</sup> (up to first flower stage, less than 20 cm)
Dandelion <sup>1</sup> (seedlings and overwintered rosettes less than or equal to 20 cm)	Perennial sow thistle	Wild buckwheat
	Redroot pigweed	Wild mustard
	Round-leaved mallow (up to 6 leaf stage, <10 cm in size)	
	Russian thistle	

<sup>1</sup> Suppression.

<sup>2</sup> Tank-mix with MCPA Ester to control Group 2 tolerant canola.

<sup>3</sup> For control tank-mix with Perimeter® II herbicide

### Outstanding grassy and broadleaf weed control in seeding miss



PrecisionPac CS-100-2525 herbicide. 13 DAA



Untreated Check

# CS-100-2525 herbicide

**Crops:** Wheat (spring and durum)

**Tank-mix Options:**

**Perimeter® II:** For added broadleaf control including kochia (including Group 2 resistant biotypes; seedling to 8-leaf stage), volunteer flax (up to 12 cm in height) and stork's bill (1-6 leaf).

**2,4-D Ester:** For added control of kochia (including Group 2 resistant biotypes)

**MCPA Ester:** For control of volunteer Group 2 herbicide tolerant canola, dandelion, scentless chamomile and white cockle.

**Timing:** Spring and durum wheat: 3 leaf to before the flag leaf stage

**Crop Rotation:**

Replant Interval	Rotational Crop
10 months	Field corn, sunflower and potatoes
11 months	Barley, brown mustard, canola, dry bean (of the species <i>Phaseolus vulgaris</i> ), flax, canola quality Brassica juncea, lentils, oats, field peas, chickpea, spring wheat, soybean and yellow mustard

**Application Information:**

**Rates:** 40.14 g/ac

**Acres per grower bag:** Minimum: 20 acres; Maximum: 200 acres

**Surfactant:** Add Agral® 90, Liberate® Adjuvant, Ag-Surf® II, HiActivate® Non-ionic Liquid Spreader/Activator, Super Spreader Adjuvant, Enhance®, Pro-Surf® II or Sentry® at 2.5 L per 1000 L of spray solution.

**Water Volume:** 5-10 imp. gal/ac

**Rainfastness:** Two (2) hours

**Mixing Instructions:** For complete mixing instructions, see page 47.

**PrecisionPac CS-100-2525 herbicide is also registered for aerial application.**

**Excellent wild buckwheat control**



Source: Carman, MB, 2016. 29 DAA

## CS-75-2525 herbicide

### Great weed control, exceptional value

PrecisionPac® CS-75-2525 herbicide is a cost-effective, all-in-one solution for controlling lower wild oat populations that combines a reduced rate of our pyroxusulam with PrecisionPac PP-2525 herbicide. That way, you get wild oat activity without compromising on exceptional broadleaf weed control in your spring and durum wheat.

#### Grassy weeds controlled

Wild oats\* (up to 4 leaf, 2 tiller)

Japanese brome (1 leaf to 4 leaf, 2 tiller stage; under good growing conditions)

#### Broadleaf weeds controlled

Annual smartweed (green smartweed, lady's thumb)	Hemp-nettle	Stinkweed
Canada thistle <sup>1</sup>	Kochia <sup>4</sup>	Stork's bill <sup>4</sup> (1-6 leaf)
Cleavers <sup>4</sup> (1-6 whorl)	Lamb's-quarters	Volunteer canola <sup>2</sup> (1-6 leaf)
Common chickweed (1-6 leaf)	Narrow-leaved hawk's-beard	Volunteer flax <sup>4</sup> (up to 12 cm in height)
Cow cockle	Night-flowering catchfly	White cockle <sup>3</sup>
Dandelion <sup>3</sup> (spring and fall rosettes, up to 15 cm in diameter)	Perennial sow thistle	Wild buckwheat
Flixweed	Redroot pigweed	Wild mustard
	Russian thistle	
	Scentless chamomile <sup>3</sup>	

\*For control of low wild oat populations (<75 plants/m<sup>2</sup>) only

<sup>1</sup> Suppression

<sup>2</sup> Tank-mix with MCPA Ester to control Group 2 herbicide tolerant canola

<sup>3</sup> When tank-mixed with MCPA

<sup>4</sup> For control tank-mix with Perimeter® II herbicide

# CS-75-2525 herbicide

 **Crops:** Wheat (spring and durum)

 **Tank-mix Options:**

**Perimeter<sup>®</sup> II:** For added broadleaf control including cleavers, kochia, stork's-bill and volunteer flax

**2,4-D Ester:** For additional kochia control, including group 2 biotypes

**MCPA Ester:** For control of volunteer Group 2 herbicide tolerant canola, dandelion, scentless chamomile and white cockle.

 **Timing:** Spring and durum wheat (3-leaf to before the flag leaf stage)

 **Crop rotation:**

Replant Interval	Rotational Crop
10 months	Field corn, sunflower and potatoes
11 months	Barley, brown mustard, canola, dry bean (of the species <i>Phaseolus vulgaris</i> ), flax, canola quality Brassica juncea, lentils, oats, field peas, chickpea, spring wheat, soybean and yellow mustard

 **Application Information:**

**Rates:** 33.14 g/ac use when wild oat populations are <75 plants/m<sup>2</sup>

**Acres per grower bag: Minimum:** 20 acres; **Maximum:** 220 acres

**Surfactant:** Add a registered non-ionic surfactant (NIS) such as: Agral<sup>®</sup> 90, Liberate<sup>®</sup> Adjuvant, Ag-Surf<sup>®</sup> II, HiActivate<sup>®</sup> Non-ionic Liquid Spreader/Activator, Super Spreader Adjuvant, Enhance, Pro-Surf<sup>®</sup> II or Sentry<sup>®</sup> at 2.5 L per 1000 L of spray solution.

**Rainfastness:** Two (2) hours

**Water volume:** 5-10 imp gal/ac

**Mixing Instructions:** For complete mixing instructions, see page 47.

**PrecisionPac CS-75-2525 herbicide is also registered for aerial application.**

## CS-100-23235 herbicide

### One pass, one solution for your most challenging fields

PrecisionPac® CS-100-23235 herbicide is an all-in-one blend for the dark brown, black and grey soil zones that combines our pyroxsulam and PrecisionPac PP-23235 herbicide together for uncompromising control of broadleaf and grassy weeds in spring and durum wheat.

#### Grassy weeds controlled

Barnyard grass (1-5 leaf)	Green foxtail <sup>1</sup> (1-5 leaf)	Wild oats (up to 4 leaf, 2 tiller)
Downy brome <sup>1</sup> (2-6 leaf, 4 tillers)	Japanese brome (1-6 leaf)	Yellow foxtail (1-5 leaf)
	Persian darnel <sup>1</sup> (1-4 leaf, 2 tiller)	

#### Broadleaf weeds controlled

Annual smartweed (green smartweed, lady's-thumb)	Flixweed	Scentless chamomile
Annual sow thistle <sup>3</sup>	Hemp-nettle	Shepherd's purse (up to 30 cm)
Canada thistle <sup>1</sup>	Kochia <sup>4</sup>	Stinkweed
Cleavers (1-6 whorl)	Lamb's-quarters	Stork's bill
Common chickweed (up to 10 cm)	Narrow-leaved hawk's-beard (up to 20 cm)	Volunteer canola <sup>2</sup> (1-6 leaf)
Corn spurry (up to 2 whorl stage, <10 cm in height)	Night-flowering catchfly	Volunteer flax <sup>4</sup>
Cow cockle	Perennial sow thistle	White cockle
Dandelion (spring or fall rosettes up to 20 cm in height)	Redroot pigweed	Wild buckwheat
	Round-leaved mallow (1-6 leaf, <10 cm in size)	Wild mustard
	Russian thistle	

<sup>1</sup> Suppression

<sup>2</sup> Including Group 2 herbicide tolerant canola varieties when tank-mixed with MCPA Ester.

<sup>3</sup> When tank-mixed with MCPA Ester

<sup>4</sup> When tank-mixed with Perimeter® II Herbicide

#### Night-flowering catchfly



# CS-100-23235 herbicide

 **Crops:** Wheat (spring and durum)

 **Tank-mix Options:**

**Perimeter® II:** For added broadleaf control including volunteer flax and kochia

**2,4-D Ester:** For additional kochia control, including group 2 biotypes

**MCPA Ester:** For control of volunteer Group 2 herbicide tolerant canola and annual sow thistle

 **Timing:** Spring and durum wheat (3-leaf to before the flag leaf stage)

 **Crop rotation:**

Replant Interval	Rotational Crop
10 months	Field corn
11 months	Barley, canola, dry beans, flax, lentils, oats, peas, soybeans and spring wheat

 **Application Information:**

**Rates:** 41.15 g/ac

**Acres per grower bag:** Minimum: 50 acres; Maximum: 200 acres

**Surfactant:** Add a registered non-ionic surfactant (NIS) such as Agral® 90, Liberate® Adjuvant, Ag-Surf® II, HiActivate® Non-ionic Liquid Spreader/Activator, Super Spreader Adjuvant, Enhance®, Pro-Surf® II or Sentry® at 2.5 L per 1000 L of spray solution.

**Rainfastness:** Two (2) hours

**Water volume:** 5-10 imp gal/ac

**Mixing Instructions:** For complete mixing instructions, see page 47.

## CS-75-23235 herbicide

### Wild oat activity, broadleaf performance, exceptional value

PrecisionPac® CS-75-23235 herbicide combines a reduced rate of our pyroxsulam and PrecisionPac PP-23235 herbicide in a cost-effective, all-in-one solution that delivers wild oat activity and exceptional broadleaf weed control for your spring and durum wheat.

#### Grassy weeds controlled

Japanese brome (1-4 leaf, 2 tiller; under good growing conditions)

Wild oats\* (up to 4 leaf, 2 tiller)

#### Broadleaf weeds controlled

Annual smartweed (green smartweed, lady's-thumb)

Kochia<sup>3</sup>

Stinkweed

Annual sowthistle<sup>4</sup>

Lamb's-quarters

Stork's bill

Canada thistle<sup>1</sup> (up to 15 cm)

Narrow-leaved hawk's-beard (up to 20 cm)

Volunteer canola<sup>2</sup> (2-4 leaf)

Cleavers<sup>3</sup>

Night-flowering catchfly

Volunteer flax<sup>3</sup> (up to 12 cm in height)

Common chickweed (1-6 leaf)

Perennial sow thistle

White cockle

Cow cockle

Redroot pigweed

Wild buckwheat

Dandelion (spring or fall rosettes up to 20 cm in diameter)

Round-leaved mallow (1-6 leaf)

Wild mustard

Flixweed

Russian thistle

Hemp-nettle

Scentless chamomile

\*For control of low wild oat populations (<75 plants/m<sup>2</sup>)

<sup>1</sup> Suppression

<sup>2</sup> Including Group 2 herbicide tolerant when tank-mixed with MCPA Ester.

<sup>3</sup> When tank-mixed with Perimeter® II Herbicide

<sup>4</sup> When tank-mixed with MCPA Ester

#### Volunteer canola control



# CS-75-23235 herbicide

 **Crops:** Wheat (spring and durum)

 **Tank-mix Options:**

**Perimeter® II:** For added broadleaf control including volunteer flax, cleavers and kochia

**2,4-D Ester:** For additional kochia control, including group 2 biotypes

**MCPA Ester:** For control of volunteer Group 2 herbicide tolerant canola and annual sow thistle

 **Timing:** Spring and durum wheat (3-leaf to before the flag leaf stage)

 **Crop rotation:**

Replant Interval	Rotational Crop
10 months	Field corn
11 months	Barley, canola, dry beans, flax, lentils, oats, peas, soybeans and spring wheat

 **Application Information:**

**Rates:** 34.15 g/ac

**Acres per grower bag:** **Minimum:** 50 acres; **Maximum:** 220 acres

**Surfactant:** Add a registered non-ionic surfactant (NIS) such as: Agral® 90, Liberate® Adjuvant, Ag-Surf® II, HiActivate® Non-ionic Liquid Spreader/Activator, Super Spreader Adjuvant, Enhance®, Pro-Surf® II or Sentry® at 2.5 L per 1000 L of spray solution.

**Rainfastness:** Two (2) hours

**Water volume:** 5-10 imp gal/ac

**Mixing Instructions:** For complete mixing instructions, see page 47.

# Cross-Spectrum Herbicides Weed Control Summary

	CS-100-2525	CS-75-2525	CS-100-23235	CS-75-23235
<b>BROADLEAF WEEDS</b>				
Annual smartweed (green, lady's thumb)	C	C	C	C
Canada thistle	S	S	S	S
Cleavers (up to 6 whorl)	C		C	
Common chickweed (1-6 leaf)	C	C	C	C
Corn spurry	C		C	
Cow cockle	C	C	C	C
Dandelion	S		C	C
Flixweed	C	C	C	C
Hemp-nettle	C	C	C	C
Lamb's-quarters	C	C	C	C
Narrow-leaved hawk's-beard	C	C	C	C
Night flowering catchfly	C	C	C	C
Redroot pigweed	C	C	C	C
Round-leaved mallow	C		C	C
Russian thistle	C	C	C	C
Scentless chamomile			C	C
Shepherd's-purse	C		C	
Sow thistle (perennial)	C	C	C	C
Stinkweed	C	C	C	C
Stork's-bill			C	C
Volunteer canola*	C	C	C	C
White cockle			C	C
Wild buckwheat	C	C	C	C
Wild mustard	C	C	C	C
<b>GRASSY WEEDS</b>				
Barnyard grass (1-5 leaf)	C		C	
Downy brome (2 - 6 leaf, 4 tillers)	S		S	
Green foxtail (1-5 leaf)	S		S	
Japanese brome (1-6 leaf)	C		C	
Japanese brome (1-4 leaf, 2 tiller)				C
Persian darnel (1 to 4 leaf, 2 tiller)			S	
Wild oats (up to 4 leaf, 2 tiller) Low population (<75 plants/m <sup>2</sup> )	C	C	C	C
Wild oats (up to 4 leaf, 2 tiller) High population (>75 plants/m <sup>2</sup> )	C		C	
Yellow foxtail (1 - 5 leaf)	C		C	

C - Control

S - Suppression

\* Excluding Group 2 herbicide tolerant varieties

Apply to young, actively growing weeds that are less than 10 cm in height or diameter, unless otherwise indicated

# Cross-Spectrum Herbicides Application Information Summary

	CS-100-2525	CS-75-2525	CS-100-23235	CS-75-23235
<b>Rate</b>	40.14 g/ac	33.14 g/ac	41.15 g/ac	34.15 g/ac
<b>Crop</b>	Spring wheat and durum			
<b>Staging</b>	3-leaf to before the flag leaf			
<b>Ground Application</b>	✓	✓	✓	✓
<b>Water Volume</b>	22 L/acre			
<b>Air Application</b>	✓	✓	Not Registered	
<b>Water Volume</b>	10 – 20 L/acre When a tank mixture is used, consult the labels of the tank-mix partners			
<b>Comments</b>	Must have 0.25% v/v of registered adjuvant added. Registered adjuvants: Agral® 90, Ag-Surf® II, Liberate Adjuvant, HiActivate® Nonionic Liquid Spreader/Activator, Super Spreader Adjuvant, Enhance®, ProSurf II® and Sentry™			

## Registered Tank Mixes

Product	Rate	Additional weeds controlled
<b>Wheat (spring, durum)</b>		
MCPA Ester 500 or MCPA Ester 600	226 ml/ac (MCPA Ester 500)  190 ml/ac (MCPA Ester 600)	<b>CS-100-23235, CS-75-23235:</b> Weeds controlled or suppressed by herbicide alone, as well as annual sow thistle and volunteer Group 2 tolerant canola varieties (e.g. Clearfield* canola or other varieties with Group 2 tolerance). Apply when volunteer canola is in the 1-6 leaf stage with <b>CS-100-23235</b> or 2-4 leaf stage with <b>CS-75-23235</b> . <b>CS-100-2525, CS-75-2525:</b> White cockle, dandelion (spring & fall rosettes, up to 15 cm in diameter), scentless chamomile, Group 2 herbicide tolerant canola (1-6 leaf stage)
Perimeter II + 0.25% v/v adjuvant	85 ml/ac	<b>CS-100-23235, CS-75-23235, CS-100-2525, CS-75-2525:</b> for control of kochia (including Group 2 resistant biotypes, seedling to 8 leaf), volunteer flax. <b>CS-75-23235:</b> + cleavers (1-6 whorl). <b>CS-100-2525, CS-75-2525:</b> + stork's bill (1-6 leaf)

FMC recommends to add a NIS at 0.25% v/v for all above tank mixes. FMC Corporation supports the following mix that is not on all the listed PrecisionPac Cross Spectrum Herbicide labels. Apply mix according to the most restrictive use limitations for either product: 2,4-D ester.

# Cross-Spectrum Herbicides

## Other Information

### Mixing Instructions

Use mixing instructions as described in the Preparation and Application of Pesticides section of the Crop Guide.

### Application Tips

Effectiveness may be reduced if spray mixture remains in the tank for more than 24 hours. Do not apply to crops underseeded to legumes or grasses as injury to forage may result.

### How it Works

Absorbed by foliage. Inhibits cell elongation.

### Expected Results

Cross Spectrum Herbicides stop the growth of susceptible weeds immediately. However, typical symptoms (discoloration) of dying weeds may not be noticeable for 1 - 3 weeks after application, depending on growing conditions and weed susceptibility. Degree of control and duration of effect depend on weed sensitivity, weed size, spray coverage and growing conditions.

### Restrictions

**Rainfall:** 2 hours.

**Grazing:** May not be grazed or fed to livestock within 7 days of application.

**Pre-harvest Intervals:** Allow 60 days between application and harvest.

### Recropping:

- **Crops that can be seeded after applications of CS-100-23235, CS-75-23235:**
  - 11 months after application: barley, canola, flax, lentils, oats, peas, soybeans, dry beans and spring wheat
  - 10 months after application: field corn.
- **Crops that can be seeded after applications of CS-100-2525, CS-75-2525:**
  - 11 months after application: barley, brown mustard, canola, dry bean (of the species *Phaseolus vulgaris*), flax, canola quality Brassica juncea, lentils, oats, field peas, chickpea, spring wheat, soybean and yellow mustard or fields can be summer fallowed
  - 10 months after application: field corn, sunflower and potatoes

# Additional products designed for use with PrecisionPac<sup>®</sup> herbicides

44 Perimeter<sup>®</sup> II herbicide

## Perimeter<sup>®</sup> II herbicide

### Perimeter<sup>®</sup> II herbicide

This Group 4 herbicide can be tank-mixed with several PrecisionPac<sup>®</sup> herbicides to help manage weed resistance and improve control of cleavers and several other broadleaf weeds. It can be used on wheat (spring, durum, winter), oats and barley.

#### Weeds controlled (refer to label for specific rates)

<b>Cleavers</b> (1–8 whorls)	<b>Kochia</b> (2–8 leaf) (including Group 2-resistant)	<b>Volunteer flax</b> (1–12 cm)
<b>Chickweed</b> (up to 8 cm) (including Group 2-resistant)	<b>Round-leaved mallow</b> (1–6 leaf)	

#### Weeds suppressed

Hemp-nettle (2–6 leaf)	Stork's-bill (1–8 leaf)	Wild buckwheat (1–4 leaf)
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 **Crops:** Wheat (spring, durum, winter), barley and oats

#### **Tank-mix Options:**

- PP-2525 herbicide
- PP-23235 herbicide
- PP-3317 herbicide
- CS-100-2525 herbicide
- CS-75-2525 herbicide
- CS-100-23235 herbicide
- CS-75-23235 herbicide
- DB-8454

 **Timing:** Apply to actively growing wheat, oats and barley from the 2-leaf crop growth stage up to and including initiation of stem elongation.

 **Crop Rotation: Following year:** Alfalfa, barley, canola, corn, dry beans, faba beans, flax, forage grasses, lentils, mustard, oats, peas, potatoes, soybeans, sugar beets, sunflowers, rye or wheat fields can be summerfallowed.

 **Packaging:** 3.4 L, 80 L Jug (333 g/L)

 **Application Information:** Refer to individual labels for application information

**Water Volume:** 5-10 imp. gal/ac.

**Rainfastness:** One (1) hour

**Mixing Instructions:** For complete mixing instructions, see page 47.

# Other Resources

- 46 Solumax<sup>®</sup> soluble granules
- 47 Herbicide mixing instructions,  
sprayer cleanout & Sulfonylureas  
and pH Adjusters
- 50 Certified PrecisionPac<sup>®</sup> Herbicide  
Retailers



## The convenience and benefits of a dry herbicide that works like a liquid

Many sulfonylurea herbicides from FMC are formulated using the unique technology of Solumax<sup>®</sup> soluble granules to deliver active ingredients that completely dissolve in water, creating a clear solution. That means you get all the convenience and benefits of a dry herbicide that works just like a liquid.

Here are the three (3) key benefits:

### 1. Solumax will save you time, money and water with easier sprayer cleanout.

Products powered by Solumax fully dissolve into solution so less active adheres to the sides of the tank and particles won't clog nozzles or become trapped in filters or other pinch points. In tests, cleanout times were reduced by up to 70% when compared to a DF herbicide.

### 2. Lower risk to sensitive crops.

Because it is easier to remove product residue from the tank, the impact to subsequently sprayed crops like peas or canola is minimized.

### 3. Consistent weed control.

Solumax increases the bioavailability of the active ingredient to the weed. The active is rapidly absorbed into the weed, which provides fast, effective and consistent weed control.



**Dry flowable (DF)**      **Soluble granules (SG)**

*Remember, not all dry herbicides are alike! If your dry herbicide isn't powered by Solumax, you may not be maximizing your weed control and putting your operations at risk.*



## Herbicide mixing instructions, sprayer cleanout & Sulfonylureas and pH Adjusters

1. Start with a clean empty sprayer. Ensure sprayer is equipped with 50 mesh screens or filters when using FMC products.
2. Fill sprayer tank 1/2 full with clean water in order to ensure enough water for added product to dilute properly.
3. With agitator running, add the FMC products according to their formulation as shown below in the **WAMLEGS** chart. Add the products slowly.
4. If loading FMC granular products, agitate well to ensure granules are completely dissolved prior to moving to the next step. This can take longer in spring with cold water sources.  
Do not aggressively agitate SE, SC or EC formulations. Moderate agitation is sufficient. If the spray mixture looks like its boiling, then there is too much agitation.
5. If using a mix & fill tank, add the FMC product to as large a volume of water as possible in a chemical handler.
6. If combining multiple products, ensure application water volume is sufficient to dilute the mixture.
7. Proceed with adding additional products as per the **WAMLEGS** chart and water while maintaining agitation. Slowly add each tank mix partner, before proceeding to the next tank mix partner.
8. For repeat tank loads, start off with an empty tank or ensure spray solution is reduced to 10%, or less, of the original volume.
9. (Recommended) For the last load of the day, add 10L of household ammonia (containing at least 3% ammonia) to the tank heel PRIOR to the addition of the FMC product, water and glyphosate. Follow steps 2 through 6.
10. (Recommended) When spraying an FMC extended weed control liquid formulated product multiple days in a row, it is important, at the end of each day to fill the sprayer with water overnight, to prevent any film from developing on the tank walls.

**W**ettable powders, dispersible granules, soluble granules (WG, DF, SG, WP, SP)

**A**gitate tank mix thoroughly

**M**icro-encapsulated suspensions (ME)

**L**iquid flowables and suspensions (SC, SL, SN, Li, SU, SE)

**E**mulsiifiable concentrate formulations (EC)

- Fill spray tank nearly full with water

**G**lyphosate formulations

**S**urfactants

- Complete filling the spray tank to the desired level

### Special mixing instructions for soluble granule (SG) herbicides when using a CHEM HANDLER:

1. Ensure the chem handler is clean (rinsed with ammonia).
2. For best results, add the SG herbicide to the top of the sprayer tank.
3. If you do use a chem handler, make sure that all of the SG herbicide is completely dissolved and injected into the main tank with agitation before adding other chemicals.
4. Low water volumes in some chem handlers can cause the water to become saturated with soluble granules, leaving undissolved granules. In that case, rinse the chem handler with

## Herbicide mixing instructions, sprayer cleanout & Sulfonylureas and pH Adjusters

clean water before adding any other chemicals.

5. Always dissolve the soluble granules with agitation in the main tank before adding a tankmix partner.

*Note: Follow the clean-out procedure recommended for sprayer tanks for the chem handler.*

### Sprayer Cleanout Procedure

1. Empty tank completely and flush entire spraying system with clean water. Ensure the boom is flushed well by removing boom end caps or opening boom end valves.
2. Visually inspect all sprayer parts, including in-line filters, to ensure removal of all visible herbicide residues.
3. Prepare a sprayer cleaning solution by adding 3 (three) litres of ammonia per 100 litres of clean water. Prepare sufficient cleaning solution to allow the spray system to operate for a minimum of 15 minutes.

Household ammonia (containing at least 3% active), agricultural ammonia such as Finish or Flush are recommended. When tank mixing a Group 2 herbicide with a petroleum based formulation or adjuvant, add a detergent at 0.25L/100 L to the ammonia rinse. The detergent breaks down the petroleum coating to allow the ammonia access to the Group 2 product.

4. Flush the cleaning solution through the entire sprayer system and then add more water to completely fill the tank. The use of top-mounted tank rinse nozzles allow for a reduction in use of rinse volume by utilizing 3 rinses totaling 10% of the tank volume. Sit with agitation for at least 15 minutes or allow to sit overnight.
5. Drain the tank.
6. Remove nozzles, screens and filters and clean separately in a bucket of water and cleaning agent.
7. Thoroughly rinse the tank with clean water for 5 minutes minimum, flushing water throughout the entire sprayer system.

Frequent sprayer cleaning throughout the spraying season with ALL pesticides make any single cleaning operation more efficient and effective.

### Sulfonylureas and pH Adjusters

Acidifying additives such as LI 700® or Surfactant NI are not recommended for use with FMC PrecisionPac® blends and packaged sulfonylurea products. The specific concern is the potential for more rapid product degradation if the spray solution needs to sit for an extended period of time. Appropriate surfactants for use with PrecisionPac or FMC packaged products are non-ionic surfactant brands such as Agral® 90, Ag-Surf®, Ag-Surf® II, HiActivate™ Non-ionic Liquid Spreader/Activator, Liberate® Adjuvant, Super Spreader Adjuvant, Enhance®, Pro-Surf® II] or Sentry®.

FMC also recommends water conditioners such as Disclose® pH – Water Conditioner (NutriAg), pHix® (Omex Agriculture Inc.), N-Force (ATP Nutrition) or other brands that lower the pH of the water not to be used with FMC PrecisionPac blends and packaged sulfonylurea products.



# Certified PrecisionPac® Herbicide Retailers

## Alberta

### Agro Plus Holdings

Foremost (403) 647-6213

### Agro Plus Inc.

Dunmore (403) 487-2906

Lethbridge (403) 327-7070

### Cash Chem

Ponoka (403) 704-3957

### Central Alberta Coop Ltd.

Innisfail (403) 227-3466

### Consort Agro Services

Consort (403) 577-3020

### Crop Management Network Inc.

Edberg (780) 877-0003

### Foster's Seed and Feed Ltd.

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### Nutrien Ag Solutions

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### Smoky Seed Company

Guy (780) 837-1334

### South Country Coop Limited

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### United Farmers of Alberta

Airdrie (403) 948-5913

Grande Prairie (780) 532-1281

### Westview Coop Ltd.

Hanna (403) 854-2820

## British Columbia

### Agro Source Ltd.

Dawson Creek (250) 782-4449

### Nutrien Ag Solutions

Fort St. John (250) 785-3445

## Manitoba

### Ag Advantage

Marquette (204) 322-5351

### GJ Chemical Co. Ltd.

Arnaud (204) 427-2337

**Nutrien Ag Solutions**

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 Carberry (204) 834-2180  
 Ninga (204) 534-6806

**Pembina Coop**

Swan Lake (204) 836-2109

**Richardson Pioneer**

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**Sierens Seed Service**

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**Saskatchewan****Blair's Fertilizer Limited**

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**Pioneer Coop**

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**Pioneer Coop Agronomy Centre**

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**Rack Petroleum**

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Saskatoon (306) 978-9094

**Saskatoon Cooperative Association Ltd.**

Saskatoon (306) 933-3835

**Sharpe's Crop Services.**

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