



# PRODUCT PORTFOLIO

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## 2023

Precision Chemistry<sup>™</sup>  
for Real Results



# PRECISION CHEMISTRY™

## FOR REAL RESULTS

Vive Crop Protection addresses the challenges of precision agriculture with revolutionary technology designed to maximize performance, efficiency and profitability on the farm.

### Targeted Protection

When a chemical or biological is applied, it needs to go straight to the problem without causing issues in other areas. The Allosperse® Delivery System uses patented nano-polymer 'shuttles' to carry an active ingredient where it needs to go.

### Tuned for Specific Chemistry

The inside and outside of every proprietary Vive Allosperse nano-polymer is designed for optimal compatibility and performance ensuring each active ingredient performs at its' best.

#### FUNGICIDES

AZterknot®

AZteroid® FC<sup>3.3</sup>

Averland® FC

#### INSECTICIDES

Bifender® FC

Midac® FC

Viloprid® FC<sup>1.7</sup>

THE

# ALLOSPERSE<sup>®</sup>

ADVANTAGE



Creating new possibilities for growers, Allosperse targets and optimizes the interaction between active ingredients, fertilizers, micronutrients, biologicals and other chemicals.

## COMPETITIVE ADVANTAGES

- Proven performance
- Solution stays in suspension
- Worry-free tank mixing
- No blending agents required
- Better foliar leaf coverage
- High customer satisfaction

### Quadris<sup>®</sup> fungicide in various fertilizers



### AZteroid<sup>®</sup> FC<sup>3.3</sup> fungicide in various fertilizers



## FUNGICIDES

### AZterknot®

<b>CATEGORY</b>	Fungicide + Biostimulant
<b>CONTAINS</b>	Azoxystrobin (1.74 lbs/gal) + Reynoutria sachalinensis extract (1.0 lbs/gal) + Allosperse
<b>GROUP</b>	11 + P5
<b>APPLICATION</b>	Soil or foliar
<b>COMPARE TO</b>	Unique 3-in-1 combination
<b>PACKAGE SIZE</b>	2 x 2.5 gal

For growers seeking plant health benefits and proven disease control, AZterknot® combines a trusted strobilurin with a market-leading biological to maximize yield potential and ROI while providing peace of mind.

#### PERFORMANCE BENEFITS

- Maximize plant health with two active ingredients.
- Added biostimulant induces plant's natural defenses and improves stress tolerance.
- Delivers two modes of action for systemic, broad-spectrum control of key diseases.

#### KEY DISEASES CONTROLLED

Alternaria leaf spot, Anthracnose, Black dot, Black scurf, Downy mildew, Early blight, Gray leaf spot, Northern corn leaf blight, Powdery mildew, Pythium, Rhizoctonia, Rusts, Sheath blight, Silver scurf

## INSECTICIDES

### Averland® FC

<b>CATEGORY</b>	Nematicide, Insecticide, Miticide
<b>CONTAINS</b>	Abamectin (0.7 lbs/gal) + Allosperse
<b>GROUP</b>	6
<b>APPLICATION</b>	Soil or foliar
<b>COMPARE TO</b>	Agri-Mek® SC
<b>PACKAGE SIZE</b>	4 x 1 gal, 2 x 2.5 gal

Averland FC is a Restricted Use Pesticide.

Averland® FC protects crop quality and yield from nematodes and a broad range of insect pests in a convenient, easy-to-use application with an excellent safety profile and proven ROI.

#### PERFORMANCE BENEFITS

- When applied in-furrow, it maximizes yield potential by providing a concentrated area of protection around the seed and root zone through critical early stages of crop development.
- Easy to handle, low use-rate, liquid nematicide with an excellent safety profile.
- Compatible with liquid fertilizers, micronutrients, and other inputs for ease-of-use.
- Flexible tank mix partner for in-season control of key pests.

#### KEY PESTS CONTROLLED

Colorado potato beetle, Leafminers, Mites, Nematodes<sup>1,2</sup>, Psyllids, Thrips<sup>2</sup>

<sup>1</sup> Corn in-furrow, cotton in-furrow, potatoes chemigation  
<sup>2</sup> Suppression only

### Midac® FC

<b>CATEGORY</b>	Insecticide
<b>CONTAINS</b>	Imidacloprid (1.7 lbs/gal) + Allosperse
<b>GROUP</b>	4A
<b>APPLICATION</b>	Soil
<b>COMPARE TO</b>	Counter® 20G
<b>PACKAGE SIZE</b>	2 x 2.5 gal

For sugarbeet growers looking for reliable sugarbeet root maggot control, Midac® FC insecticide delivers a unique liquid fertilizer compatible solution that is more economical and easier to handle than Counter® 20G.

#### PERFORMANCE BENEFITS

- Delivers the trusted performance of imidacloprid, providing long-lasting, systemic control of insects, including sugarbeet root maggot, where 13.6 fl oz of Midac FC provides equivalent performance to 7.5 lbs of Counter 20G.
- The only imidacloprid compatible with liquid fertilizers and other crop inputs.
- Provides a more cost-effective solution to control sugarbeet root maggot vs Counter 20G.
- No need for additional equipment and heavy boxes.

#### KEY PESTS CONTROLLED

Aphids, Beet curly top virus<sup>1</sup>, Flea beetle, Leafhoppers, Sugarbeet root maggot, Western yellows<sup>1</sup>, Whiteflies

<sup>1</sup> Suppression of symptoms

## FUNGICIDES

### AZteroid® FC<sup>3.3</sup>

<b>CATEGORY</b>	Fungicide
<b>CONTAINS</b>	Azoxystrobin (3.3 lbs/gal) + Allosperse
<b>GROUP</b>	11
<b>APPLICATION</b>	Soil or foliar
<b>COMPARE TO</b>	Quadris®
<b>PACKAGE SIZE</b>	2 x 2.5 gal

Enabled by Allosperse, AZteroid® FC<sup>3.3</sup> delivers long-lasting disease control and maximizes farming efficiency through best-in-class fertilizer compatibility.

#### PERFORMANCE BENEFITS

- Mixes easily with liquid fertilizers, hard water, and other crop inputs, enabling a single-pass application of disease control and fertility.
- Delivers proven, long-lasting, soilborne disease control resulting in even stand establishment, especially under cold, wet conditions.
- Enhances leaf coverage for improved foliar disease control.
- Improves plant health for increased crop quality and yield.

#### KEY DISEASES CONTROLLED

Alternaria leaf spot, Anthracnose, Black dot, Black scurf, Downy mildew, Early blight, Gray leaf spot, Northern corn leaf blight, Powdery mildew, Pythium, Rhizoctonia root rot, Rhizoctonia stalk rot, Rusts, Sheath blight, Silver scurf

## INSECTICIDES

### Bifender® FC

<b>CATEGORY</b>	Insecticide, Miticide
<b>CONTAINS</b>	Bifenthrin (1.75 lbs/gal) + Allosperse
<b>GROUP</b>	3
<b>APPLICATION</b>	Soil or foliar
<b>COMPARE TO</b>	Capture® LFR®
<b>PACKAGE SIZE</b>	2 x 2.5 gal

Bifender FC is a Restricted Use Pesticide.

For growers seeking to control a broad range of soil pests in an easy-to-use solution, Bifender® FC delivers peace of mind during planting with a best-in-class user experience and a positive ROI.

#### PERFORMANCE BENEFITS

- Stays in suspension longer for a more uniform application.
- Broad-spectrum insecticide that delivers effective, long-lasting control of soil pests to protect plant stands, root health and yields, especially in corn-on-corn acres.
- Mixes seamlessly with liquid fertilizers and other crop inputs.
- Works with existing liquid systems on a planter.
- Incorporate as part of an IPM strategy to help manage trait resistance in corn rootworm populations.

#### KEY PESTS CONTROLLED

Aphids, Armyworm, Black cutworm, Bollworms, Corn rootworm, Flea beetle, Flea hopper, Grape colaspis Grasshoppers, Japanese beetle, Loopers, Plant bug, Root maggot, Rootworm, Seedcorn maggot, Spider mite, Stalkborer, Stink bug, Thrips, Tobacco budworm, Webworms, White grubs, Wireworm

### Viloprid™ FC<sup>1.7</sup>

<b>CATEGORY</b>	Insecticide
<b>CONTAINS</b>	Imidacloprid (1.7 lbs/gal) + Allosperse
<b>GROUP</b>	4A
<b>APPLICATION</b>	Soil or foliar
<b>COMPARE TO</b>	Admire® Pro
<b>PACKAGE SIZE</b>	2 x 2.5 gal

The easiest to handle imidacloprid solution, Viloprid® FC<sup>1.7</sup> stays in suspension longer and is compatible with liquid fertilizers and other crop inputs compared to Admire® Pro and other leading imidacloprid brands.

#### PERFORMANCE BENEFITS

- Offers tank-mix convenience with an easy to handle imidacloprid, compatible with liquid fertilizers and other crop inputs.
- Delivers proven, long lasting, systemic performance of imidacloprid in the field.
- Provides outstanding control of many yield-damaging insects in both soil and foliar applications.

#### KEY PESTS CONTROLLED

Aphids, Beet curly top virus<sup>1</sup>, Colorado potato beetle, Flea beetle, Leafhoppers, Potato leaf roll virus<sup>1</sup>, Potato psyllid, Potato yellows<sup>1</sup>, Net necrosis<sup>1</sup>, Western yellows<sup>1</sup>, Whiteflies, Wireworms<sup>1</sup>

<sup>1</sup> Suppression of symptoms

## PRODUCT PORTFOLIO WITH REGISTERED CROPS

Crop	FUNGICIDES		INSECTICIDES			
	AZterknot®	AZteroid® FC <sup>3,3</sup>	Averland® FC	Bifender® FC	Midac® FC	Viloprid® FC <sup>17</sup>
Alfalfa / Forages	•	•				
Cotton	•	•	•	•		•
Cereals	•	•				
Corn	•	•	•	•		
Edible Beans / Peas	•	•	•	•		•
Grapes	•	•	•	•		•
Hops			•	•		•
Mint	•	•	•			
Onion	•	•	•			
Peanut	•	•		•		•
Potatoes	•	•	•	•	•	•
Rice	•	•				
Sorghum	•	•				
Soybean	•	•		•		•
Strawberries	•	•	•			•
Sugarbeets	•	•			•	
Tobacco	•	•		•		•
Wheat	•	•				
Root & Tuber Vegetables (Group 1)	•	•	•	•		•
Bulb Vegetables (Group 3-7)	•	•	•			
Leafy Vegetables (Group 4)	•	•	•	•		•
Brassica (Group 5)	•	•		•		•
Fruiting Vegetables (Group 8)	•	•	•	•		•
Cucurbits (Group 9)	•	•	•	•		•
Citrus (Group 10-10)	•	•	•	•		•
Pome Fruit (Group 11)			•			•
Stone Fruit (Group 12)	•	•	•			•
Small Fruit & Berries (Group 13-7)	•	•	•	•		•
Tree Nuts (Group 14-12)	•	•	•			•
Herbs (Group 19A)	•	•	•	•		•
Oilseeds (Group 20)	•	•	•	•		•

\* See label for specific crop registrations and groups. Not all products are registered in all states.

## RATE COMPARISON GUIDE

FUNGICIDES	AI (lb/gal)	For Approximate Calculations	Equivalent Application Rate (fl oz/A)
AZteroid® FC <sup>3,3</sup>	3.3	Divide by <b>1.59</b>	<i>Quadris</i> @ 9 oz = AZteroid FC <sup>3,3</sup> @ 5.7 oz
<i>Quadris</i> ®	2.08		

INSECTICIDES	AI (lb/gal)	For Approximate Calculations	Application Rate (fl oz/A)
Averland® FC	0.7	Divide by <b>1.0</b>	<i>Agri-Mek SC</i> @ 3.5 oz = Averland FC @ 3.5 oz
<i>Agri-Mek SC</i>	0.7		
Bifender® FC	1.75	Divide by <b>1.17</b>	<i>Capture LFR</i> @ 12 oz = Bifender FC @ 10.3 oz
<i>Capture LFR</i> ®	1.5		
Viloprid® FC <sup>17</sup>	1.7	Divide by <b>0.37</b>	<i>Admire Pro</i> @ 6 oz = Viloprid FC <sup>17</sup> @ 16.2 oz
<i>Admire Pro</i>	4.6		

\* See label for specific crop rates and rate ranges.

☎ 1-888-760-0187 ✉ products@vivecrop.com 🌐 vivecrop.com

