



# 2024 PORTFOLIO

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



# PRECISION CHEMISTRY™

## FOR REAL RESULTS

At Vive, we create Precision Chemistry™ that simplifies crop production and delivers real results to growers. Powered by Vive's patented Allosperse® Delivery Technology, we optimize conventional and biological crop inputs for improved product performance from the jug to the field.

### Targeted Protection

Using patented nano-polymers, Allosperse optimizes the chemical or biological active ingredient, enabling targeted placement for more uniform disease or pest protection.

### Tuned for Specific Chemistry

The inside and outside of every proprietary Allosperse nano-polymer is designed for optimal compatibility and performance allowing each active ingredient to reach its full potential.

#### FUNGICIDES

 AZterknot®

 AZteroid® FC<sup>3.3</sup>

#### INSECTICIDES

 Bifender® FC

 Midac® FC

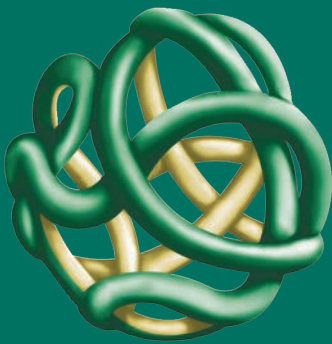
 Viloprid® FC<sup>1.7</sup>

#### NEMATOCIDE

 Averland® FC

# THE ALLOSPERSE<sup>®</sup>

## ADVANTAGE



Creating new possibilities for growers, Allosperse enables Vive's Precision Chemistry™ solutions to be compatible with liquid fertilizers and other crop inputs for an easy and more efficient at-plant or foliar application.

### COMPETITIVE ADVANTAGES

- Proven performance
- Solution stays in suspension
- Hassle-free tank mixing
- No blending agents required
- Increased leaf coverage
- High customer satisfaction

### Superior Liquid Fertilizer Compatibility

AZteroid<sup>®</sup> FC<sup>3.3</sup>



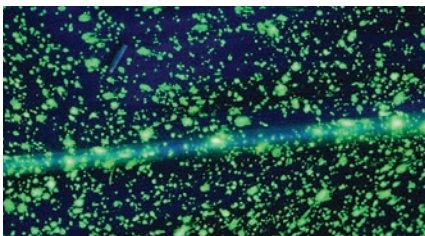
Quadris<sup>®</sup>



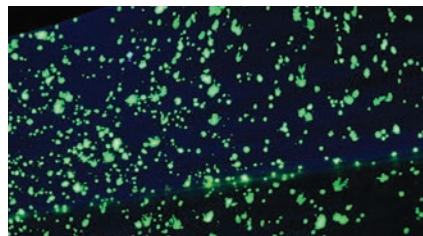
Built with Allosperse Delivery Technology, Vive products mix perfectly with liquid fertilizers, micro-nutrients, and other crop inputs for a hassle-free, consistent crop protection application.

### Superior Foliar Spray Coverage

AZterknot<sup>®</sup>



Quadris<sup>®</sup>



Powered by Precision Chemistry™, AZterknot provides superior foliar leaf coverage. AZterknot droplets stick better than Quadris, improving droplet retention and maximizing the surface area protected (image of corn leaf).

## 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>PACKAGE SIZE</b>	2 x 2.5 gal

For growers seeking to improve stress tolerance, optimize growth efficiency, and deliver proven disease control, AZterknot® combines a trusted strobilurin with a market-leading biostimulant to maximize yield potential and ROI while providing peace of mind.

#### PERFORMANCE BENEFITS

- Maximum yield potential with a dual boost of plant health.
- Broad spectrum preventative disease control.
- Optimized growth efficiency and improved stress tolerance.
- Enhanced leaf coverage for improved foliar disease control.

#### 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



### 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
<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.
- 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



## NEMATOCIDE

### 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>PACKAGE SIZE</b>	4 x 1 gal, 2 x 2.5 gal

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

- Used in-furrow, it maximizes yield potential by providing a concentrated area of protection around the seed and root zone.
- Flexible tank mix partner for at-plant and in-season pest control.
- Low-use-rate liquid nematicide with excellent safety profile.

#### KEY PESTS CONTROLLED

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

Averland FC is a Restricted Use Pesticide.

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

<sup>2</sup> Suppression only





## 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>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, long-lasting pest control, especially in corn-on-corn acres.
- Incorporate to help manage trait resistance in corn rootworm populations.
- Mixes seamlessly with liquid fertilizers and other crop inputs.
- Works with existing liquid systems on a planter.

#### 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



### Midac® FC

<b>CATEGORY</b>	Insecticide
<b>CONTAINS</b>	Imidacloprid (1.7 lbs/gal) + Allosperse
<b>GROUP</b>	4A
<b>APPLICATION</b>	Soil
<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

- Trusted performance of imidacloprid for long-lasting, systemic pest control.
- The only imidacloprid compatible with liquid fertilizers and other crop inputs.
- At 13.6 fl oz/A, it is a more cost effective solution against sugarbeet root maggot in comparison to 7.5 lbs/A of 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



### 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>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.
- Outstanding insect control via 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>, Thrips, 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 <sup>®</sup>	AZteroid <sup>®</sup> FC <sup>3.3</sup>	Averland <sup>®</sup> FC	Bifender <sup>®</sup> FC	Midac <sup>®</sup> FC	Viloprid <sup>®</sup> FC <sup>17</sup>
Alfalfa / Forages	•	•				
Blueberries	•	•		•		
Canola	•	•		•		
Cereals	•	•				
Corn	•	•	•	•		
Cotton	•	•	•	•		•
Edible Beans / Peas	•	•	•	•		•
Grapes	•	•	•	•		•
Hops			•	•		•
Mint	•	•	•			
Onion	•	•	•			
Peanut	•	•		•		•
Potatoes	•	•	•	•	•	•
Rice	•	•				
Sorghum	•	•				
Soybean	•	•		•		•
Strawberries	•	•	•			•
Sugarbeets	•	•			•	
Tobacco	•	•		•		•
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 <sup>®</sup> FC <sup>3.3</sup>	3.3	Divide by <b>1.59</b>	Quadris <sup>®</sup> @ 9 oz = AZteroid FC <sup>3.3</sup> @ 5.7 oz
Quadris <sup>®</sup>	2.08		

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

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

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