A Combination of Three Fungicides for Protection against Wheat Diseases

Top-of-the-line fungicides combined in an exceptional formulation

Warden® Cereals II is the second generation of WinField’s Warden® Cereals brand. It includes an all new fungicide package of three fungicides with different modes of action for broader spectrum control of diseases, delivered in an easy to use and handle formulation.

Protect the roots

Warden® Cereals II seed treatment protects roots from diseases by moving through the plant from the seedling to the roots providing systemic protection. Healthy roots allow cereals to tolerate disease, insect and environmental stresses and can position cereals to deliver bigger yields.

Mefenoxam

The same active ingredient in Apron XL®, mefenoxam protects young cereals from Pythium Damping-Off and other seedling blights and root rots caused by Pythium spp. early in the year.

Sedaxane

Sedaxane is a succinate dehydrogenase inhibitor (SDHI) fungicide. It has been specifically formulated for seed treatments and provides excellent protection against Rhizoctonia.

*Dividend® Extreme + Vibrance® was used in the trial but the formulation is equivalent to Warden® Cereals II. Data was used with permission from Syngenta, LLC. 2014 Rosalia, WA. Stand count results recorded 15 days after planting. All seed was treated with Cruiser® seed treatment insecticide at 1 fl oz/cwt.
**Difenoconazole**

A proven fungicide for control against dwarf and other bunts along with smuts including: loose, covered and flag.

**Ingredients**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sedaxane</td>
<td>1.22%</td>
</tr>
<tr>
<td>Difenoconazole</td>
<td>5.86%</td>
</tr>
<tr>
<td>Mefenoxam</td>
<td>1.46%</td>
</tr>
<tr>
<td>Other Ingredients</td>
<td>91.46%</td>
</tr>
</tbody>
</table>

**Warden® Cereals II contains 0.115 pounds of sedaxane, 0.552 pounds of difenoconazole and 0.138 pounds of mefenoxam per gallon.**

**Use Rate**

2.8-5.6 fl oz/100 lbs of seed

**Application**

Warden® Cereals II can be applied through an on-site seed treater, commercially or by a seed company. It is also fully compatible with an Insecticide seed treatment, like Cruiser®, for early season insect control.

**Broad-spectrum Protection**

- **Bunts**
  - Common
  - Dwarf
  - Karnal
- **Common Root Rot** (*Cochliobolus* spp. suppressed)
- **Smuts**
  - Covered
  - False Loose
  - True Loose
- **Fusarium Crown and Foot Rot** (suppressed)
- **Fusarium Seed Scab**
- **General Seed Rots**
- **Pythium Damping-off**
- **Seedling Blight, Root Rot and Damping-off** caused by seedborne and soilborne *Fusarium* spp. or *Rhizoctonia* spp.
- **Seedling Blight, Root Rot and Damping-off** caused by soilborne *Pythium* spp.
- **Seedborne Septoria* ssp.*
- **Septoria Leaf Blotch**
- **Take-all** (suppressed)

**Fusarium Protection in Spring Wheat**

![Graph showing yield comparison between Inoculated Check, Noninoculated Check, and Warden® Cereals II*](image)

**True Loose Smut Protection in Barley**

![Graph showing yield comparison between Inoculated Check and Warden® Cereals II*](image)

*Vibrance® Extreme was used in the trial but the formulation is equivalent to Warden® Cereals II. All barley seed was inoculated with *Ustilago nuda*. Data was used with permission from Syngenta, LLC. 2014, ID and WY.

*Vibrance® Extreme was used in the trial but the formulation is equivalent to Warden® Cereals II. All seed was inoculated with *Fusarium pseudograminearum*. Data was used with permission from Syngenta, LLC.

ALWAYS READ AND FOLLOW LABEL DIRECTIONS. Because of factors outside of Winfield Solutions control such as weather, soil, planting and product application; individual results to be obtained, including but not limited to: financial performance, profits, losses and yields cannot be predicted or guaranteed by Winfield Solutions. Advise, Warden and WinField are registered trademarks of Winfield Solutions, LLC. Dividend, Cruiser and Vibrance are registered trademarks of Syngenta Group. ©2015 Winfield Solutions, LLC Learn more about our brands at winfield.com
Ascend® SL
By WinField United

EPA Registered Plant Growth Regulator

Ascend® SL PGR contains an optimal combination of three EPA registered plant growth regulators designed to provide vigorous early plant germination and emergence, a robust root system, larger leaves and wider stems. The product can be applied as a seed treatment, in-furrow or as a foliar application.

FEATURES AND BENEFITS

- Cytokinin promotes cell division and leaf expansion.
- Gibberellic acid stimulates cell division and elongation in leaves and stems.
- Indolebutyric acid stimulates root formation and development, and increases cell elongation.

Benefits of Ascend® PGR on Corn

<table>
<thead>
<tr>
<th>Sites (%) positive response</th>
<th>Number of Locations</th>
<th>Yield Response (bu/A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-Year Average</td>
<td>60.5</td>
<td>199</td>
</tr>
</tbody>
</table>

Germination

Full Maturity

† Always read and follow product labels directions.

©2017. WinField is a registered trademark and WinField United is a trademark of WinField Solutions, LLC.
Insect protection for seed in multiple crops

Systemic Early-Season Insect Protection

NITRO SHIELD® seed treatment provides broad-spectrum protection against damaging insects for more than 20 crops. Part of the neonicotinoid chemistry family, NITRO SHIELD® seed treatment includes the active ingredient imidacloprid for long-lasting systemic protection during critical early-season crop development. NITRO SHIELD® seed treatment, which features increased user safety and convenient low use rates, is compatible with most fungicides and inoculants.

NITRO SHIELD® seed treatment is labeled for use on corn, cotton, soybeans, wheat and a large variety of other crops, including specialty crops with limited seed treatment options. Due to its systemic action, NITRO SHIELD® seed treatment also protects pretreated seed against insect damage during storage.

Labeled Crops

NITRO SHIELD® seed treatment protects seed against destructive pests in the following crops:

- Barley
- Beans*
- Borage
- Canola
- Carrot
- Corn (field, pop, sweet)
- Cotton (delinted only)
- Crambe
- Flax
- Mustard Seed
- Oat
- Peas*
- Rapsesed
- Rye
- Safflower
- Sorghum
- Soybean
- Sugar beet
- Sunflower
- Triticale
- Wheat

*Includes many different types of these crops; see label for complete listing.

Ingredients

<table>
<thead>
<tr>
<th>Imidacloprid</th>
<th>48.7%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other ingredients</td>
<td>51.3%</td>
</tr>
<tr>
<td>TOTAL</td>
<td>100%</td>
</tr>
</tbody>
</table>

NITRO SHIELD® seed treatment contains 5 pounds active ingredient per gallon.

Stored Seed Pest Control

NITRO SHIELD® seed treatment may also be used to protect stored seed of the crops listed. Pests controlled during storage include the following:

- Indian meal moth
- Lesser grain borer
- Red flour beetle
- Rice weevil

If seed being treated is known to have an existing pest infestation, fumigation may be necessary before bagging.
NITRO SHIELD®
By WinField®

Application

NITRO SHIELD® seed treatment may be used in liquid or slurry seed treaters by seed companies or dealers with commercial seed treaters. It may be mixed with approved fungicide seed treatments or applied to seed previously treated with a fungicide. Application rates vary by insect and crop being treated. See the product label for complete application rate information. A colorant must be added when NITRO SHIELD® seed treatment is applied alone.

Insects Controlled

NITRO SHIELD® seed treatment controls a broad spectrum of insects on a wide variety of crops, including the following:

Beans, peas*
- Aphids
- Bean leaf beetles
- Imported fire ants
- Wireworms

Canola, mustard seed, rapeseed
- Aphids
- Flea beetles
- Lygus bugs (suppression)
- Seedpod weevil larvae (suppression)
- Wireworms

Carrot
- Seed corn maggots
- Wireworms

Cotton (delinted)¹
- Aphids
- Thrips

Field corn²,³,⁴
- Billbugs
- Black cutworms
- Chinch bugs
- Corn leaf aphids
- Corn rootworms
- Flea beetles
- Grape colaspis
- Imported fire ants
- Seed corn maggots

Flax, crambe, borage
- Flea beetles
- Seed corn maggots
- Wireworms

Popcorn (commercial)
- Flea beetles

Safflower
- Wireworms

Sorghum
- Aphids
- Chinch bugs
- Imported fire ants
- Wireworms

Soybean
- Seed corn maggots
- Soybean aphids
- Overwintering bean leaf beetles

Sunflower
- Flea beetles
- Seed corn maggots
- Wireworms

Southern corn leaf beetles
- Southern green stinkbugs
- Thrips
- White grubs
- Wireworms

Sugar beet (commercial)
- Aphids
- Leafhoppers
- Root aphids
- Thrips
- Whitefly
- Wireworms

Sweet corn (commercial)
- Early-season corn leaf aphids
- Flea beetles
- Imported fire ants
- Weed corn maggots
- Wireworms

Wheat, barley, oat, rye, triticale
- Aphids
- Grasshoppers
- Hessian fly
- Wireworms (suppression only)

Sugar beet* (commercial)
- Aphids
- Leafhoppers
- Root aphids
- Thrips
- Whitefly
- Wireworms

*Includes many different types of these crops; see label for complete listing.

¹Do not apply more than 0.5 pound imidacloprid active ingredient per cropping cycle.
²For light-to-moderate corn rootworm populations.
³Reduces early-season feeding damage from billbug and grape colaspis.
⁴Reduces feeding damage caused by leaf-feeding black cutworms that are one-half inch or less in length.
⁵Includes aphids and leafhoppers to reduce risk of spreading curly top and yellow mosaic virus.

Packaging

| 2 x 2.5-gallon jugs |
Insect Protection for Seed in Many Crops

Nitro Shield® IV seed treatment provides broad-spectrum protection against damaging insects for more than 20 crops. The active ingredient imidacloprid gives long-lasting protection during critical early-season crop development.

FEATURES AND BENEFITS
- Controls a broad spectrum of insects on a wide variety of crops.
- Systemic action also protects pre-treated seed against insect damage during storage.
- Convenient low use rates.
- Compatible with most fungicides and inoculants.

Labeled Crops

<table>
<thead>
<tr>
<th>Barley</th>
<th>Flax</th>
<th>Sorghum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beans*</td>
<td>Millet</td>
<td>Soybean</td>
</tr>
<tr>
<td>Borage</td>
<td>Mustard Seed</td>
<td>Sugarbeet</td>
</tr>
<tr>
<td>Canola</td>
<td>Oat</td>
<td>Sunflower</td>
</tr>
<tr>
<td>Carrot</td>
<td>Peas*</td>
<td>Triticale</td>
</tr>
<tr>
<td>Corn (Field, Pop, Sweet)</td>
<td>Rapeseed</td>
<td>Wheat</td>
</tr>
<tr>
<td>Cotton (Delinted only)</td>
<td>Rye</td>
<td></td>
</tr>
<tr>
<td>Crambe</td>
<td>Safflower</td>
<td></td>
</tr>
</tbody>
</table>

*Includes many different types of these crops; see label for complete listing.

Stored Seed Pest Control

Pests controlled during storage include:
- Indian meal moth
- Lesser grain borer
- Red flower beetle
- Rice weevil

† Always read and follow product labels directions.
Winfield United is a trademark and Nitro Shield and WinField are registered trademarks of Winfield Solutions, LLC. ©2017.

winfieldunited.com