



# Traditional Seed Treatments

***MERISTEM***<sup>®</sup>  
***CROP PERFORMANCE***





# RACEREADY™ COMPLETE

SEED TREATMENT

## PUT PLANTS ON THE FAST TRACK TO HIGHER YIELDS

RACEREADY™ COMPLETE seed treatment gives your soybeans unsurpassed protection against harmful early-season pests through a best-in-class fungicide and insecticide package. Combined with a unique blend of inoculants, biologicals and polymers, RACEREADY COMPLETE drives exceptional early-season plant health and plantability.

RACEREADY COMPLETE offers a proprietary triple-stack inoculant, a proprietary liquid Trichoderma biological for better root development and starch-based extender/polymers for easier planting. For top performance and value pricing that leaves the competition in the dust, run with RACEREADY.

### PRODUCT BENEFITS

- Triple-stack inoculant package
- Protects against harmful early-season pests
- Drives exceptional early-season plant health and plantability
- Trichoderma biological for better root development
- Herbicide tolerant bradyrhizobia strain (patent # 8772576)

### AGRONOMIC BENEFITS

**Fludioxonil:** a non-systemic fungicide with control of Rhizoctonia damping off, rhizoctonia seed rot, pythium, phytophthora and fusarium

**T-methyl:** a systemic fungicide with control against rhizoctonia damping off and phomopsis

**Mefenoxam:** a systemic fungicide used to control pythium damping off and phytophthora

**Imidacloprid:** a systemic insecticide proven to effectively protect beans from a broad range of harmful insects

**Bradyrhizobia Inoculant:** an inoculant including three proprietary strains that accelerate early-season nodulation for maximum nutrient uptake across all geographies.

**Trichoderma:** an active biological that creates more robust root systems and improves photosynthetic efficiency

**Extender/Polymer:** starch-based (non-sticky) extender reduces bridging and improves on-seed life of Bradyrhizobia and overall performance

**SeedWorx:** a polymer coating designed for uniform coverage and reducing dust off, excellent seed flow, shiny quality finish with high opacity, and WOW factor appearance.

### ACTIVE INGREDIENTS PER CWT

#### FUNGICIDE

Fludioxonil*	4#	0.08 oz
T-methyl*	4.5#	0.28 oz
Mefenoxam*	4.1#	0.23 oz

#### INSECTICIDE

Imidacloprid*	5#	1.60 oz
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#### ROOT ENHANCEMENT

Bradyrhizobium japonicum

Bradyrhizobium elkanii

Inoculant	1.10 oz
Trichoderma	0.20 oz

#### PLANTING EASE

Extender/Polymer	0.25 oz
SeedWorx	0.60 oz
Colorant	0.70 oz

\*EPA registered active ingredients

### PACKAGING, USE RATE & APPLICATION INSTRUCTIONS

RACEREADY COMPLETE is a co-pack. The co-pack (Part A) is a liquid premix available in a 15-gallon keg. The pre-mix contains the fungicide, insecticide, SeedWorx and a colorant. The application rate for the premix is 2.12 oz per 50 lb of soybeans.

The second component of the co-pack (Part B) is a case that includes three separate parts:

- 1 bladder containing the inoculant
- 2 cylinders of the liquid Trichoderma
- 2 cylinders of the extender/polymer

The application rate for the biological components is 0.775 oz per 50 lb of soybeans. See reverse side for additional information, use rate and application instructions.

### STORAGE INSTRUCTIONS

Protect RACEREADY COMPLETE from excessive heat. Store in a cool place between 40° and 77°F, out of direct sunlight. Do not allow to freeze. Open packages only when ready to use. Use entire contents after opening.

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All RACEREADY recommend use rates are based on treating a 50lb unit of soybeans with an estimated 140k seeds per unit. The table below provides use rates:

The following tables outline the approximate number of units that different packaging options treat:

CO-PACK COMPONENT	USE RATE PER 50LBS OF SOYBEANS
Part A Fungicide/Insecticide Pre-Mix	2.12 oz
Part B Inoculant, Trichoderma, Extender/Polymer	0.775 oz

CO-PACK COMPONENT	30 GAL MINI-DRUM (PART A)	4 CASES (PART B)
50 LB UNITS	1800	1800

## EFFICACY COMPARISON

	RACEREADY™ COMPLETE	COMPETITION		
		CruiserMaxx® Vibrance®	Acceleron Fungicide & Insecticide Package	Acceleron Fungicide Package
<b>DISEASES</b>				
Diaporthe (Phomopsis)				
Aspergillus & Penicillium Seed Rot				
Pythium Damping Off				
Rhizoctonia Damping Off				
Pythium & Rhizoctonia Seed Rot & Seedling Blight				
Seed Decay Fungi				
Fusarium Damping Off, Seed Rot & Seedling Blight				
Phytophthora				
Sudden Death Syndrome				
White Mold				
Seed-Borne White Mold (Sclerotinia & Botrytis)				
<b>INSECTS</b>				
Aphids, Seed Corn Maggots, White Grubs				
Leafhoppers, Bean Leaf Beetle, Thrips, Wireworm				
Soybean Cyst Nematode				
Indian Meal Moth, Lesser Grain Borer, Rice Weevil, Overwintering Bran Leaf Beetle, Red Flour Beetle				

**KEY**  
CONTROLS PEST:

## APPLICATION INSTRUCTIONS

RACEREADY COMPLETE is an all liquid system designed for use in a liquid tank mix in commercial seed treatment systems. For the **Part A** components of the co-pack, connect the keg to the slurry tank and set system to apply product at the suggested use rate.

For **Part B** of the co-pack:

1. Prior to adding to the tank, shake well all components (liquid rhizobia, extender, liquid Trichoderma).
2. All components (liquid rhizobia, extender, liquid Trichoderma) are to be used together.
3. Gradually pour components into non-chlorinated water.
4. When all three components are combined the mixture is ready to apply. Connect container to the inoculant and biological application port that bypasses the atomizer on most commercial seed treaters.
5. Once mixed, use immediately.

**Treat no more than 120 days prior to planting.**

## NEW SOYBEAN GROUND OR ADVERSE CROP CONDITIONS

**Recommendations for Adverse Conditions or New "Virgin" Soybean Fields** – If soil has not hosted the specific legume for more than three (3) years; Soil pH is less than 5.8 (pH should be adjusted by liming prior to inoculation); Soil pH is more than 8.5; Soil organic matter is less than 1.5%; Drought or flooding has occurred; Topsoil conditions exceed 80° F; Soil erosion, or with the use of soil treatments and chemicals injurious to soil bacteria and inoculants, to **Maximize Soybean Yield Potential**: When planting soybeans under the conditions listed above, it is recommended to apply a double (2x) rate of inoculants.

**Achieve a 2x inoculants rate as follows:**

- Apply a 1x rate of RACEREADY COMPLETE no more than 30 days prior to planting.
- Additionally, apply at planting, a 1X rate OF REVLIN® HOPPER THROTTLE™ SOYBEAN application or peat based inoculant.





RACEREADY™ F+I seed treatment gives your soybeans unsurpassed protection against harmful early-season disease and insects. With a best-in-class fungicide and insecticide package, combined with a polymer proven to reduce dust-off and improve plantability, RACEREADY F+I delivers a winning performance at a value that just makes sense.

## PRODUCT BENEFITS

- **Protection against early-season disease and insects**
- **Best-in-class fungicide and insecticide package**
- **Polymer proven to reduce dust-off and improve plantability**

## AGRONOMIC BENEFITS

**Fludioxonil:** a non-systemic fungicide with control of Rhizoctonia damping off, rhizoctonia seed rot, pythium, phytophthora and fusarium

**T-methyl:** a systemic fungicide with control against rhizoctonia damping off and phomopsis

**Mefenoxam:** a systemic fungicide used to control pythium damping off and phytophthora

**Imidacloprid:** a systemic insecticide proven to effectively protect beans from a broad range of harmful insects

**SeedWorx:** a polymer coating designed for uniform coverage and reducing dust off, excellent seed flow, shiny quality finish with high opacity, and WOW factor appearance.

## EFFICACY COMPARISON

DISEASES				
Diaporthe (Phomopsis)				
Aspergillus & Penicillium Seed Rot				
Pythium Damping Off				
Rhizoctonia Damping Off				
Pythium & Rhizoctonia Seed Rot & Seedling Blight				
Seed Decay Fungi				
Fusarium Damping Off, Seed Rot & Seedling Blight				
Phytophthora				
Sudden Death Syndrome				
White Mold				
Seed-Borne White Mold (Sclerotinia & Botrytis)				
INSECTS				
Aphids, Seed Corn Maggots, White Grubs				
Leafhoppers, Bean Leaf Beetle, Thrips, Wireworm				
Soybean Cyst Nematode				
Indian Meal Moth, Lesser Grain Borer, Rice Weevil, Overwintering Bran Leaf Beetle, Red Flour Beetle				

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### ACTIVE INGREDIENTS PER CWT

**FUNGICIDE**

Fludioxonil*	4#	0.08 oz
T-methyl*	4.5#	0.28 oz
Mefenoxam*	4.1#	0.23 oz

## INSECTICIDE

Imidacloprid\* 5# ..... 1.60 oz

## PLANTING EASE

SeedWorx.....	0.60 oz
Colorant.....	0.70 oz

*\*EPA registered active ingredients*

## USE RATE & APPLICATION INSTRUCTIONS

RACEREADY F+I is a pre-mix designed for use in commercial liquid seed treatment systems. The pre-mix contains the fungicide, insecticide SeedWorx and a colorant.

The application rate for the pre-mix is 2.12 oz per 50 lb of soybeans. Simply connect the keg to the slurry tank and set system to apply product at the suggested use rate.

## PRODUCT AVAILABILITY

- 15-gallon keg

**KEY**  
**CONTROLS PEST:**

[illegible]

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# RACEREADY™ F

SEED TREATMENT

## PUT PLANTS ON THE FAST TRACK TO HIGHER YIELDS

RACEREADY™ F seed treatment gives your soybeans unsurpassed protection against harmful early-season disease. With a best-in-class fungicide package, combined with a polymer proven to reduce dust-off and improve plantability, it delivers a winning performance at a value that makes sense.

RACEREADY F allows you to buy your seed treatment based on its total agronomic value. With three different fungicides, RACEREADY F gives you defense against a broad spectrum of diseases.

### PRODUCT BENEFITS

- Protection against harmful early-season disease
- Best-in-class fungicide package
- Drives exceptional early-season plant health
- Polymer proven to reduce dust-off and improve plantability

### AGRONOMIC BENEFITS

**Fludioxonil:** a non-systemic fungicide with control of Rhizoctonia damping off, rhizoctonia seed rot, pythium, phytophthora and fusarium

**T-methyl:** a systemic fungicide with control against rhizoctonia damping off and phomopsis

**Mefenoxam:** a systemic fungicide used to control pythium damping off and phytophthora

**SeedWorx:** a polymer coating designed for uniform coverage and reducing dust off, excellent seed flow, shiny quality finish with high opacity, and WOW factor appearance.

### ACTIVE INGREDIENTS PER CWT

#### FUNGICIDE

Fludioxonil\* 4# .....0.08 oz

T-methyl\* 4.5# .....0.28 oz

Mefenoxam\* 4.1# .....0.23 oz

#### PLANTING EASE

SeedWorx .....0.60 oz

Colorant .....0.70 oz

\*EPA registered active ingredients

### USE RATE & APPLICATION INSTRUCTIONS

RACEREADY F is a pre-mix designed for use in commercial liquid seed treatment systems. The pre-mix contains the fungicide, SeedWorx and a colorant.

The application rate for the pre-mix is 1.325 oz per 50 lb of soybeans. Simply connect the keg to the slurry tank and set system to apply product at the suggested use rate.

### PRODUCT AVAILABILITY

- 15-gallon keg

### KEY

CONTROLS DISEASE:

EFFICACY COMPARISON	RACEREADY™ COMPLETE	COMPETITION		
		CruiserMaxx® Vibrance®	Acceleron Fungicide & Insecticide Package	Acceleron Fungicide Package
<b>DISEASES</b>				
Diaporthe (Phomopsis)				
Aspergillus & Penicillium Seed Rot				
Pythium Damping Off				
Rhizoctonia Damping Off				
Pythium & Rhizoctonia Seed Rot & Seedling Blight				
Seed Decay Fungi				
Fusarium Damping Off, Seed Rot & Seedling Blight				
Phytophthora				
Sudden Death Syndrome				
White Mold				
Seed-Borne White Mold (Sclerotinia & Botrytis)				

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# **RACEREADY™** **INOCULANT** SEED TREATMENT

## **PUT PLANTS ON THE FAST TRACK TO HIGHER YIELDS**

RACEREADY™ INOCULANT was developed by the leading authority of soybean inoculants and is made with a unique blend of effective Rhizobia strains that allow for performance under a wide variety of soils. It has been found in recent replicated trials to be adaptable to many different types of soils and soil compounds.

It contains a triple-stack Rhizobia strain package for top-yield responses and is backed by research and scientifically proven test plot results. Application is fast and easy and is compatible with other seed treatments.

### **GUARANTEED ANALYSIS**

#### **ACTIVE INGREDIENTS**

Bradyrhizobium japonicum .....	6.7 x 10 <sup>9</sup> cfu/ml
Bradyrhizobium elkanii .....	3.3 x 10 <sup>9</sup> cfu/ml
(minimum 1x10 <sup>10</sup> cfu/ml) .....	2.0%

#### **INERT INGREDIENTS**

Water .....	92.0%
Metabolic Stabilizer .....	6.0%

### **PRODUCT BENEFITS**

- Triple stack Rhizobia strain package for top yield responses
- Has shown significant yield increases in soybeans in all planting conditions
- Backed by research and scientifically proven test plot results
- Fast and easy application
- Compatible with other seed treatments
- Developed by the best minds in Rhizobium genetics
- Herbicide tolerant bradyrhizobia strain (patent #8772576)

### **USE RATE & APPLICATION INSTRUCTIONS**

#### **APPLICATION RATE ON SEED**

0.775 fl. oz. / 140k units of soybean seed (0.55 fl. oz. liquid rhizobia; 0.125 fl. oz. liquid extender and 0.10 fl. oz. Trichoderma) for Hopper Box Treatment or Bulk Treatment.

#### **BATCH APPLICATION**

Measure the appropriate amount of RACEREADY INOCULANT for the amount of seed being inoculated. Apply uniformly over the seed and stir until all seeds are coated. Plant seed immediately for optimal performance. Seed must be reinoculated if not planted within 120 days.

### **PRODUCT AVAILABILITY**

- 15-gallon keg

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# RACEREADY™ WHEAT STZ SEED TREATMENT



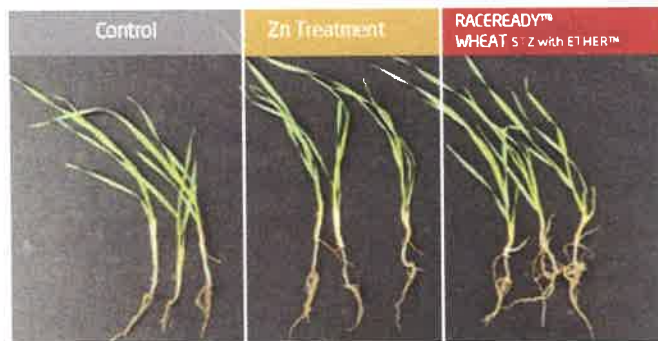
**PUT YOUR WHEAT ON THE FAST  
TRACK TO HIGHER YIELDS**

RACEREADY™ WHEAT powered by ETHER™ Enzyme Technology contains a proprietary enzyme technology that enhances seed development to get the crop off to a fast and healthy start. This formulation is designed for use as a seed treatment on all soil types and may be used in band or in furrow fertilizer applications.

RACEREADY WHEAT powered by ETHER is compatible with most fungicides and insecticide seed treatments. It may also be applied as an over-treatment if preferred.

## PRODUCT BENEFITS

- May be mixed with and applied with fungicide and insecticides
- Can be applied as an overcoat treatment
- Compatible with most inoculants and microbial based products
- Provides high quality, readily available Zn to the seed, promoting root and shoot growth and helping plants withstand environmental stress
- Rapidly disperses a high volume of two enzymes into the soil, which interacts with the outermost layer of the roots, the mucilage layer, and creates a draw for more water and nutrients towards plant roots



## USE RATE & APPLICATION INSTRUCTIONS

RACEREADY WHEAT powered by ETHER is designed for use in commercial liquid seed treatment systems at a rate of 2 oz per cwt or 1 oz per 50 lb of wheat seed.

## ACTIVE INGREDIENTS PER CWT

### FUNGICIDE

Zinc (Zn).....4.0%

4.0% Chelated zinc

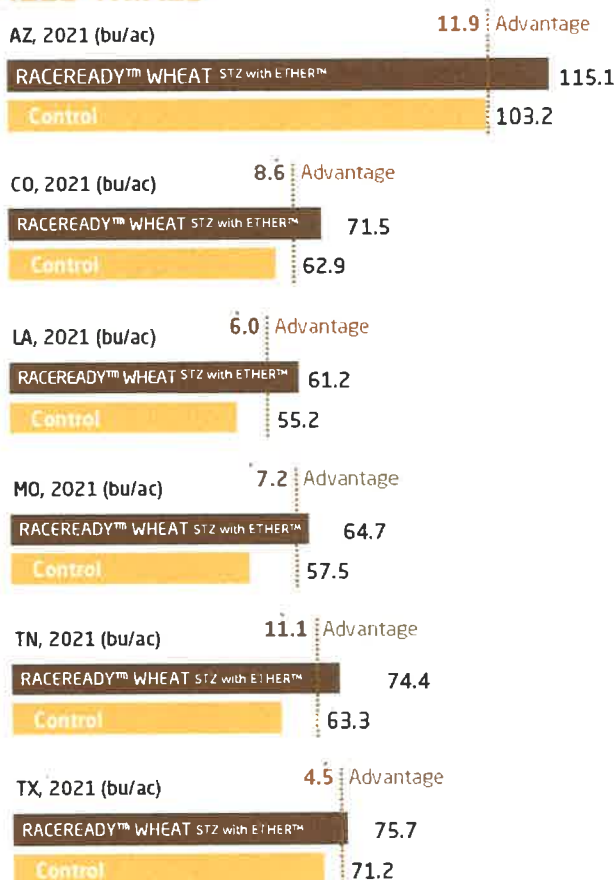
*Derived from zinc EDTA*

### ALSO CONTAINS NON-PLANT FOOD INGREDIENTS

Lipase.....3.2 x 10<sup>3</sup> µUnits/mL

Mannanase.....1.6 x 10<sup>6</sup> µUnits/mL

## FIELD TRIALS



## PRODUCT AVAILABILITY

- 4x1 gallon jugs

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# RACEREADY™ WHEAT SEED TREATMENT

## PUT YOUR WHEAT ON THE FAST TRACK TO HIGHER YIELDS

RACEREADY™ WHEAT seed treatment by shields your crop against harmful early-season disease and insects. With a best-in-class fungicide and insecticide package, RACEREADY WHEAT delivers maximum protection through harvest - with your crop's performance and profitability in mind.

### PRODUCT BENEFITS

- Protection against early-season disease and insects
- Best-in-class fungicide and insecticide package
- Drives early-season plant health and plantability

### AGRONOMIC BENEFITS

**Ipconazole + Carboxin:** a broad-spectrum, seed treatment fungicide containing ipconazole and carboxin for the control of a wide range of labeled diseases on listed cereals, corn, dried shelled beans and soybeans

**Metalaxyl:** a systemic fungicide used to control pythium damping off and systemic downy mildew

**Thiabendazole:** a systemic fungicide which aids in the control of many important plant diseases

**Imidacloprid:** a systemic insecticide proven to effectively protect wheat from a broad range of harmful insects

**Polymer:** designed to improve plantability, reduce dust-off of actives, and improve seed flow

### EFFICACY

DISEASES	
General Seed Rots	
Seedling Blight, Root, Foot and Crown Rot caused by Fusarium or Rhizoctonia	
Seedling Blight, Root Rot and Damping-Off caused by Soil-Borne Pythium spp.	
Common Bunt (Stinking Smut)	
Suppression of Powdery Mildew, Barley Stripe	
Loose Smut	
Fusarium Scab	

### ACTIVE INGREDIENTS PER CWT

#### FUNGICIDE

Ipconazole	0.208#	0.90 oz
Carboxin	3.34#	
Metalaxyl*	2.65#	0.10 oz

#### INSECTICIDE

Imidacloprid*	5#	0.80 oz
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#### OTHER

Polymer/Colorant		1.558 oz
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\*EPA registered active ingredients

### USE RATE & APPLICATION INSTRUCTIONS

RACEREADY WHEAT is a pre-mix designed for use in commercial liquid seed treatment systems.

The application rate for the pre-mix is 3.35 oz per 50 lb of wheat seed. Simply connect the keg to the slurry tank and set system to apply product at the suggested use rate.

### PRODUCT AVAILABILITY

- 15-gallon keg

KEY  
CONTROLS PEST:



INSECTS	
Suppress Wireworm	
Control Wireworm	
Aphids, Hessian Fly	
Common Grain Storage Insects	
Grasshopper	

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