

FirstLight™ Complete

Soybean Seed Treatment



BEST-IN-CLASS PROTECTION FOR YOUR SOYBEANS

FIRSTLIGHT™ complete soybean seed treatment from New Dawn Crop Performance™ supports your farm's vision for long-term success by providing your soybeans with unrivaled protection against harmful early-season pests through a best-in-class fungicide and insecticide package. Coupled with a unique blend of inoculants, biologicals and polymers, FIRSTLIGHT™ brings to life exceptional early-season plant health and plantability.

It's time for you to be able to improve yields and keep more of what you earn.

PACKAGING, USE RATE & APPLICATION INSTRUCTIONS

FIRSTLIGHT™ Complete is a co-pack. The co-pack (Part A) is a liquid premix available in a 30 gallon mini-drum. The pre-mix contains the fungicide, insecticide, FloRite¹ 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.

ACTIVE INGREDIENTS PER CWT

FUNGICIDES

Fludioxonil* 4#	0.08 oz
T-methyl* 4.5#	0.28 oz
Metalaxyl* 2.65#	0.75 oz

INSECTICIDE

Imidacloprid* 5#	1.60 oz
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ROOT ENHANCEMENT

Bradyrhizobia Inoculant	1.10 oz
Trichoderma	0.20 oz

PLANTING EASE

Extender/Polymer	0.25 oz
Flo-Rite 1706 ¹	0.80 oz

* EPA registered active ingredients

Colorant	0.74 oz
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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

Metalaxyl: 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

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

Flo-Rite 1706¹: a polymer coating designed to improve plantability, reduce dust-off of actives, and improve seed flow

¹BASF, Inc.

Please visit NewDawnCropPerformance.com for more information.

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All FIRSTLIGHT™ 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:

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

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

Co-Pack Component	30 Gal Mini-Drum (Part A)	4 Cases (Part B)
50 lb Units	1800	1800

EFFICACY COMPARISON

	FIRSTLIGHT™	COMPETITION		
		CruiserMaxx® Vibrance®	Acceleron Fungicide & Insecticide Package	Acceleron Fungicide Package
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				

APPLICATION INSTRUCTIONS

FIRSTLIGHT™ complete soybean seed treatment 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 mini-drum or tote 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:

- a. Apply a 1X rate of FIRSTLIGHT™ complete soybean seed treatment no more than 30 days prior to planting.
- b. Additionally, apply at planting, a 1X rate of a sterile peat inoculant.

STORAGE INSTRUCTIONS

Protect FIRSTLIGHT™ 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.

KEY

CONTROLS PEST: