

**\*\*BOOKLET\*\***

## ALLEGIANCE™ FL

A seed treatment for control of seedling blights and seed rots caused by *Pythium* spp. on alfalfa, birdsfoot trefoil, beans, chickpeas, canola, clover, corn (field and sweet), grasses (forage and turf), sugar beets, soybeans, sorghum, vetch, peas (dry and processing), sunflowers, wheat, barley, oats, rye and sainfoin.

### COMMERCIAL

All seed treated with this product must be conspicuously coloured at the time of treatment.

#### GUARANTEE:

Metalaxyl.....317 g/L

REGISTRATION NUMBER 26674 PEST CONTROL PRODUCTS ACT

READ THE LABEL AND BOOKLET BEFORE USING

WARNING – SKIN AND EYE IRRITANT

Canadian Agent:  
Gustafson Partnership  
10-2712-37<sup>th</sup> Ave NE, Calgary, AB  
T1Y 5L3

A quality product manufactured by:  
Gustafson LLC  
1400 Preston Road, Suite 400  
Plano, TX 75093 USA

NET CONTENTS: 3.79 Litres

#### **Special Use Restrictions:**

This product contains no colourant. An appropriate colourant must be added when this product is applied to seed. Allegiance FL is sold only to commercial seed treaters who can comply with these requirements. Regulations pertaining to colouration of treated seed enforced under the 'Seeds Act' must be strictly adhered to when using this product.

24 HOUR EMERGENCY PHONE: (613) 996-6666  
GROWER INFORMATION: 1-800-880-9481

**PROTECT FROM FREEZING**

## GENERAL INFORMATION:

Allegiance FL is a systemic fungicide seed treatment for control of seed rots and seedling blights caused by *Pythium* spp. on a number of different crops including:

### CROP

alfalfa, birdsfoot trefoil, clover, vetch  
sainfoin, grasses (forage and turf)  
beans, chickpeas, peas  
canola, rapeseed, corn (field and sweet)  
soybeans  
  
sunflowers  
barley, oats, rye, wheat  
low tannin lentils\*

### DISEASE CONTROLLED

seed rots and seedling blights  
seed rots and seedling blights  
seed rots and seedling blights  
seed rots and seedling blights  
seed rots and seedling blights, early season  
*Phytophthora*  
seed rots and seedling blights, Downy mildew  
seed rots and seedling blights  
*Pythium* seed rot

\*Only one application should be made to low tannin lentil seed. Allegiance FL may only be used on low tannin lentil seed destined for export or seed intended for seed production.

## DIRECTIONS FOR USE:

Allegiance FL should be mixed with water to form a slurry seed treatment. Use the high application rate to treat seed which is of poor quality or when planting into cold, wet soils is anticipated. Mix Allegiance FL with water as follows:

### CANADA - APPLICATION RATE TABLE (mL per 100 kg seed)

CROP	Allegiance FL	Water	Total Vol.
chickpeas, dry peas	16-110 mL	484-390 mL	500 mL
canola, rapeseed, processing peas	32-110 mL	468-390 mL	500 mL
alfalfa, beans, clover, corn (field and sweet), sainfoin, vetch	46-110 mL	454-390 mL	500 mL
grasses (forage), soybeans	46-93 mL	454-407 mL	500 mL
grasses (turf), sugarbeets	93 mL	407 mL	500 mL
Sunflowers	110-189** mL	390-311 mL	500 mL
low tannin lentils***	16 mL	484 mL	500 mL

\*\* high rate needed for Downy mildew control

\*\*\* For use on low tannin lentils destined for EXPORT or SEED PRODUCTION only.

#### CROPS INTENDED FOR EXPORT:

If the crop is intended for export the following rates should be used or consult with the importer to establish what rates of Allegiance FL are used on the crop in their country for controlling specific diseases.

#### APPLICATION RATE TABLE (mL per 100 kg seed)

CROP	Disease	Allegiance FL	Water	Total Vol.
corn	Downy mildew	189-620 mL	311 -0 mL	500-620 mL
peas	Downy mildew	146 mL	354 mL	500 mL
sunflowers	Downy mildew	620 mL	0 mL	620 mL
cereals (barley, oats,rye,wheat)	<i>Pythium</i>	46 -110 mL	454- 390 mL	500 mL
sorghum	<i>Pythium</i> Downy mildew	93- 110 mL 189 mL	407- 390 mL 311 mL	500 mL 500 mL
Birdsfoot Trefoil	<i>Pythium</i>	46- 110 mL	454- 390 mL	500 mL
Low tannin lentils	<i>Pythium</i>	16 mL	484 mL	500 mL

The slurry should be applied as a spray into the mixing chamber of the seed treating equipment to ensure good coverage.

See instructions supplied with the applicable treater system for information on proper application techniques.

#### SLURRY PREPARATION:

When preparing the slurry the following procedure should be used.

- 1) Partially fill the mixing tank with water.
- 2) Add the required quantity of Allegiance FL onto the water surface.
- 3) Allow product to disperse and then switch on agitation.
- 4) Top up with extra water to required volume and maintain agitation during use.
- 5) Add colourant last.

NOTE: A suitable seed colourant such as Gustafson Pro-Ized ® Liquid Seed Colorant must be added to the slurry prior to application on the seed. Follow instructions on the colourant package for mixing with the Allegiance FL slurry.

Allegiance FL treated seed may reduce seed flow in the seed drill. Recalibration of the seed drill may be required to obtain correct seeding rate before planting.

## **RESISTANCE MANAGEMENT RECOMMENDATIONS:**

For resistance management, please note that Allegiance FL contains a Group 4 fungicide. Any fungal population may contain individuals naturally resistant to Allegiance FL and other Group 4 fungicides. A gradual or total loss of pest control may occur over time if these fungicides are used repeatedly in the same fields. Other resistance mechanisms that are not linked to site of action but specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

To delay fungicide resistance:

- Where possible, rotate the use of Allegiance FL or other Group 4 fungicides with different groups that control the same pathogens.
- Use tank mixtures with fungicides from a different group when such use is permitted.
- Fungicide use should be based on an IPM program that includes scouting, historical information related to pesticide use and crop rotation and considers cultural, biological and other chemical control practices.
- Monitor treated fungal populations for resistance development.
- If disease continues to progress after treatment with this product, do not increase the use rate. Discontinue use of this product, and switch to another fungicide with a different target site of action.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for specific crops and pathogens.
- For further information or to report suspected resistance contact Gustafson Partnership at 1-800-880-9481 or at [www.gustafson.ca](http://www.gustafson.ca).

## **USE RESTRICTIONS:**

1. Treated seed must not be used for food, feed or oil processing.
2. Do not graze or feed livestock on treated areas for four weeks after planting.
3. Treated seed may be toxic to birds and other wildlife. Clean up any spilled seed. Ensure that treated seed is properly incorporated at planting.
4. Treated seed must be labelled as follows: "This seed has been treated with Allegiance FL seed protectant, which contains metalaxyl, a **Group 4 Fungicide**. Use chemical resistant gloves when handling treated seed. Do not use for feed, food or oil processing.'
5. All bags containing treated seed for export must be labelled or tagged as follows: "FOR EXPORT ONLY. This seed has been treated with Allegiance FL seed protectant which contains metalaxyl a **Group 4 Fungicide**. Use chemical resistant gloves when handling treated seed. Do not use for feed, food or oil processing. Store away from feeds and foodstuffs.
6. No foliar application of metalaxyl can be used on low-tannin lentils grown from metalaxyl treated seed.

## **PRECAUTIONS:**

1. KEEP OUT OF REACH OF CHILDREN.
2. Wear coveralls over normal work clothing and chemical resistant gloves when handling Allegiance FL, contaminated equipment or Allegiance-treated seed. Do not use leather or cloth gloves.
3. Allegiance FL is an eye irritant. Protective eye wear should be worn when handling this product.
4. Use good personal hygiene, washing hands and exposed skin before eating, drinking or smoking. No food, drink or tobacco should be allowed in areas of chemical storage or use.
5. May be harmful if swallowed or absorbed through skin. Wash exposed skin after use.
6. If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., contact 1-866-375-4648 or [www.cropro.org/](http://www.cropro.org/).

### **TOXICOLOGICAL INFORMATION:**

Treat poisoning victims symptomatically.

### **FIRST AID:**

**IF SWALLOWED:** Call a poison control center or doctor IMMEDIATELY for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

**IF IN EYES:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing the eye. Call a poison control center or doctor IMMEDIATELY for treatment advice.

**IF ON SKIN:** Take off contaminated clothing. Rinse skin IMMEDIATELY with plenty of water for 15-20 minutes. Call a poison control center or doctor IMMEDIATELY for treatment advice.

**IF INHALED:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for treatment advice.

Take container, label, or product name and Pest Control Product Registration Number with you when seeking medical attention.

### **STORAGE AND DISPOSAL:**

**STORAGE:** Store product in original container only, away from other pesticides, fertilizer, food or feed. Keep container closed. Do not store Allegiance FL in direct sunlight. Do not store Allegiance FL above 35°C or below 0°C.

### **DISPOSAL OF CONTAINER:**

#### **FOR NON-RETURNABLE CONTAINERS:**

1. Triple- or pressure-rinse the empty container. Add the rinsings to the mixture in the tank.
2. Follow provincial instructions for any required additional cleaning of the container prior to its disposal.
3. Make the empty container unsuitable for further use.

4. Dispose of the container in accordance with provincial requirements.

**FOR RECYCLABLE CONTAINERS:**

Do not reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

- 1) Triple- or pressure-rinse the empty container. Add the rinsings to the mixture in the tank.
- 2) Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

**FOR RETURNABLE CONTAINERS:**

Do not reuse this container for any purpose. For disposal, this empty container may be returned to the point of purchase (distributor/dealer).

**FOR REFILLABLE CONTAINERS:**

For disposal, this container may be returned to the point of purchase (distributor/dealer). It must be refilled by the distributor/dealer with the same product. Do not use this container for any other purpose.

**TRIPLE RINSE INSTRUCTIONS (FOR RECYCLABLE AND DISPOSABLE CONTAINERS ONLY):** This container should be triple-rinsed prior to its disposal. The rinsings can be added to the seed treatment provided the volume of water does not exceed the quantity indicated in the Application Rate table under the Directions For Use. Follow these steps for rinsing of containers.

1. Transfer Allegiance FL from the container to the seed treating equipment applicator tank.
2. Add 1/3 of the rinse water to the container and agitate the contents.
3. Transfer the rinsings to the applicator tank.
4. Rinse as above 2 more times. Add additional water as required to obtain desired Total Volume.
5. Thoroughly mix the Allegiance FL and rinse water in the applicator tank prior to use.

**DISPOSAL OF UNUSED, UNWANTED PRODUCT:**

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

**Seed Quality:** Treatment of highly mechanically damaged seed, or seed of known low vigour and poor quality may result in reduced germination and/or reduction of seed and seedling vigour. If seed lot quality is unknown, conduct a germination test on a small portion of seed before committing the total seed lot to a selected chemical treatment. Due to seed quality conditions beyond the control of Gustafson, no claims are made to guarantee germination of carry-over seed.

**NOTICE TO USER:**

This control product is to be used only in accordance with the directions on this label. It is an offense under the *Pest Control Products Act* to use a control product under unsafe conditions.

**NOTICE TO BUYER:**

Seller's guarantee shall be limited to the terms set out on the label and subject thereto, the buyer assumes the risk to persons or property arising from the use or handling of this product and accepts the product on that condition.

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