

****BOOKLET****

ALLEGIANCE™ FL

A seed treatment for control of seedling blights and seed rots caused by *Pythium* spp. on alfalfa, birdsfoot trefoil, beans, chickpeas, lentils, 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.

SUSPENSION

COMMERCIAL

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

GUARANTEE:

Metalaxyl.....317 g/L

REGISTRATION No. 26674 PEST CONTROL PRODUCTS ACT

READ THE LABEL AND BOOKLET BEFORE USING

WARNING – SKIN AND EYE IRRITANT

Bayer CropScience Inc.
Suite 200, 160 Quarry Park Blvd. S.E.
Calgary, Alberta T2C 3G3
Telephone: 1-888-283-6847

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 seed treaters who can comply with these requirements. Regulations pertaining to colouration of treated seed enforced under the 'Seeds Act' must be strictly adhered when using this product.

24 HOUR EMERGENCY PHONE: 1-800-334-7577

GROWER INFORMATION: 1-888-283-6847

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 | DISEASE CONTROLLED |
|---|---|
| alfalfa, birdsfoot trefoil, clover, vetch | seed rots and seedling blights |
| sainfoin, grasses (forage and turf) | seed rots and seedling blights |
| beans, chickpeas, peas | seed rots and seedling blights |
| canola, rapeseed, corn (field and sweet) | seed rots and seedling blights |
| soybeans | seed rots and seedling blights, early season <i>Phytophthora</i> |
| sunflowers | seed rots and seedling blights, Downy mildew |
| barley, oats, rye, wheat | seed rots and seedling blights |
| lentils | <i>Pythium</i> seed rot |

DIRECTIONS FOR USE:

Allegiance FL is a seed treatment formulation for use in commercial seed treatment operations for treatment of the listed crops. Allegiance FL may also be used for on-farm treatment of chickpea, lentil, peas, beans and soybean using conventional seed treating equipment which can accurately meter, mix and apply flowable seed treatment formulations. 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 and 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 |
| lentils | 16 mL | 484 mL | 500 mL |

** high rate needed for Downy mildew control

CROPS INTENDED FOR EXPORT:

If the crop is intended for export the following rates should be used. Also 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> | 93- 110 mL | 407- 390 mL | 500 mL |
| | Downy mildew | 189 mL | 311 mL | 500 mL |
| Birdsfoot Trefoil | <i>Pythium</i> | 46- 110 mL | 454- 390 mL | 500 mL |
| 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 seed 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 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, 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 efficacy 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 and to report suspected resistance, contact Bayer CropScience representatives at 1-888-283-6847 or at www.bayercropscience.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 fungicide containing metalaxyl, a **Group 4 Fungicide**. Wear a long-sleeved shirt, long pants and 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 fungicide containing 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. Do not apply this product directly to freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs, ditches and wetlands), estuaries or marine habitats.
7. Do not contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

PRECAUTIONS:

1. KEEP OUT OF REACH OF CHILDREN.
2. Do not apply in a way that this product will contact workers or other persons, either directly or through drift.
3. Commercial seed treatment facilities: Allegiance FL is an eye irritant. Wear a long-sleeved shirt, long pants, chemical resistant gloves, socks, shoes or boots and safety goggles or a face-shield during mixing, loading and application. In addition, wear coveralls during clean-up and repair and also when treating (mixing, loading, application) corn and sunflower seed destined for export. Wear a long-sleeved shirt, long pants, gloves, socks and shoes or boots during bagging, sewing, stacking or other activities not involving direct contact with treated seed.
4. On-Farm Seed Treatment: Wear a long-sleeved shirt, long pants, chemical resistant gloves, socks and shoes or boots during mixing, loading, application and planting. Allegiance FL is an eye irritant. Wear safety goggles or a face-shield during mixing, loading, application, clean-up and repair activities or if there is potential for splashing or exposure to the eyes.
5. Always read and follow all tank mix partner's labels directions for use, restrictions and precautions.
6. 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.
7. May be harmful if swallowed or absorbed through skin. Wash exposed skin after use.
8. All bags containing treated seed for sale or use in Canada must be labelled or tagged as follows: "This seed has been treated with ALLEGIANCE FL fungicide containing metalaxyl. Use chemical-resistant gloves when handling treated seed.
9. 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., visit CropLife Canada's Web site at www.croplife.ca.

TOXICOLOGICAL INFORMATION:

This product contains petroleum distillates. Vomiting may cause aspiration pneumonia. Treat symptomatically

FIRST AID:

IF SWALLOWED: Call a poison control centre or doctor IMMEDIATELY for treatment advice. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give **any** liquid to the person. 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 centre or doctor IMMEDIATELY for treatment advice.

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

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

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 CONTAINERS:

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 Bayer CropScience, no claims are made to guarantee germination of carry-over seed.

NOTICE TO USER:

This pest control product is to be used only in accordance with the directions on this label. It is an offence under the *Pest Control Products Act* to use a control product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.