

2023-7308
2024-09-12



CONTAINER

GROUPS	11	FUNGICIDES
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Acceleron D-281

SEED TREATMENT FUNGICIDE SUSPENSION

A seed treatment product for use on corn seed for the protection against listed plant pathogenic fungi.

COMMERCIAL (AGRICULTURAL)

ACTIVE INGREDIENT: fluoxastrobin..... 480 g/L

Contains 1,2-benzisothiazolin-3-one at 0.03% and 5-chloro-2-methyl-4-isothiazolin-3-one at 0.0009% and 2-methyl-4-isothiazolin-3-one at 0.0003% as preservatives.

REGISTRATION NO. 32441 PEST CONTROL PRODUCTS ACT

READ THE LABEL AND BOOKLET BEFORE USING

Bayer CropScience Inc.
Suite 200, 160 Quarry Park Blvd. SE
Calgary, Alberta
T2C 3G3

NET CONTENTS: 0.5 – 1000 L

PROTECT FROM FREEZING

For product information, call: 1-888-283-6847

In case of spills, poisoning, fire or other emergencies,
call: 1-800-334-7577 (24 hours a day)

For use with commercial seed treaters (facilities and mobile treaters) with closed transfer including closed mixing, loading, calibrating, and closed treatment equipment only. No open transfer of Acceleron D-281 Seed Treatment Fungicide is permitted.

GENERAL INFORMATION

Acceleron D-281 Seed Treatment Fungicide is a broad spectrum seed treatment labeled for the control or suppression of certain plant pathogenic fungi. Acceleron D-281 Seed Treatment Fungicide provides control of seed rot and pre-emergence damping off caused by seed-borne *Aspergillus* spp. and *Penicillium* spp., and aids in the suppression of late-season stalk rot caused by *Colletotrichum graminicola*.

Acceleron D-281 Seed Treatment Fungicide may be applied in commercial treating equipment which can accurately control application rates and provide good distribution of the chemical onto the seed in the mixing chamber.

PRECAUTIONS:

- KEEP OUT OF REACH OF CHILDREN.
- Harmful if swallowed. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing before reuse.
- Workers must wear long pants, a long-sleeved shirt, and shoes plus socks. In addition, workers must wear protective gloves during handling of the formulation and wet treated seed, and during clean-out of treatment equipment.
- Do not apply in a way that this product will contact workers or other persons. Only handlers (mixers, loaders and applicators) wearing personal protective equipment may be in the area being treated during application.
- Wear long-sleeved shirt, long pants, shoes plus socks, and chemical-resistant gloves when handling treated seed.
- All bags containing treated seed for sale or use in Canada must be labeled or tagged as follows: "This seed has been treated with Acceleron D-281 Seed Treatment Fungicide containing fluoxastrobin. Wear long-sleeved shirt, long pants, shoes plus socks, and chemical-resistant gloves when handling treated seed. DO NOT use for feed, food or oil processing. Store away from feeds and other foodstuffs. Any spilled or exposed seeds must be incorporated into the soil or otherwise cleaned-up from the soil."
- For use with commercial seed treaters (facilities and mobile treaters) with closed transfer including closed mixing, loading, calibrating, and closed treatment equipment only. No open transfer of Acceleron D-281 Seed Treatment Fungicide is permitted.

FIRST AID:

IF SWALLOWED: Call a poison control centre 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 centre 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 eye. Call a poison control centre or doctor 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 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 by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

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

TOXICOLOGICAL INFORMATION:

There is no specific antidote if this product is ingested. Treat symptomatically.

ENVIRONMENTAL PRECAUTIONS:

Toxic to aquatic organisms. Toxic to birds. Any spilled or exposed seeds must be incorporated into the soil or otherwise cleaned up from the soil surface.

STORAGE:

Store product in original container only, away from other pesticides or fertilizer. Store in a cool, dry place and avoid excessive heat. Keep container closed. Store this product away from food or feed.

DISPOSAL:

FOR NON-RETURNABLE CONTAINERS:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the mixture in the tank.
2. Follow provincial/territorial 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/territorial 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 container unsuitable for further use.

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

provincial/territorial 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 rinsate can be added to the seed treatment. Follow these steps for rinsing of containers:

1. Transfer Acceleron D-281 Seed Treatment Fungicide 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 rinsate to the applicator tank.
4. Rinse as above 2 more times.
5. Thoroughly mix the Acceleron D-281 Seed Treatment Fungicide and rinse water in the applicator tank prior to use.

CAUTION: Be sure to adjust the undiluted application rate by the same volume of water added to compensate for the dilution of the product caused by the addition of rinsate.

DISPOSAL OF UNUSED, UNWANTED PRODUCT:

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

DISPOSAL OF TREATED SEED:

Dispose of all excess treated seed. Left over treated seed may be double-sown around the headland or buried away from water sources in accordance with local requirements. Dispose of seed packaging in accordance with local requirements. DO NOT re-use bags from treated seed to handle food or feed products.

NOTICE TO USER: This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label.

BOOKLET

Acceleron D-281

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Table of Contents:	Section	Page Number
GENERAL INFORMATION	1. The Product	3
SAFETY AND HANDLING	2. Precautions, Protective Clothing and Equipment ..	3
	3. First Aid and Toxicological Information	4
	4. Environmental Precautions and Information	4
	5. Storage	4
	6. Disposal	5
	7. Notices	6
DIRECTIONS FOR USE	8. Pests Controlled	6
	9. Recommended Uses	7
	10. Application Cautions	9
	11. Use Limitations	10
	12. Resistance Management Recommendations	10

GENERAL INFORMATION

Section 1: The Product

ACCELERON D-281 Seed Treatment Fungicide is a broad spectrum seed treatment labeled for the control or suppression of certain plant pathogenic fungi. ACCELERON D-281 Seed Treatment Fungicide provides control of seed rot and pre-emergence damping off caused by seed-borne *Aspergillus* spp. and *Penicillium* spp., and aids in the suppression of late-season stalk rot caused by *Colletotrichum graminicola*.

ACCELERON D-281 Seed Treatment Fungicide may be applied in commercial treating equipment which can accurately control application rates and provide good distribution of the chemical onto the seed in the mixing chamber.

SAFETY AND HANDLING

Section 2: Precautions, Protective Clothing and Equipment

PRECAUTIONS:

- KEEP OUT OF REACH OF CHILDREN.
- Harmful if swallowed. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing before reuse.
- Workers must wear long pants, a long-sleeved shirt, and shoes plus socks. In addition, workers must wear protective gloves during handling of the formulation and wet treated seed, and during clean-out of treatment equipment.
- Do not apply in a way that this product will contact workers or other persons. Only handlers (mixers, loaders and applicators) wearing personal protective equipment may be in the area being treated during application.
- Wear long-sleeved shirt, long pants, shoes plus socks, and chemical-resistant gloves when handling treated seed.
- All bags containing treated seed for sale or use in Canada must be labeled or tagged as follows: "This seed has been treated with ACCELERON D-281 Seed Treatment Fungicide containing fluoxastrobin. Wear long-sleeved shirt, long pants, shoes plus socks, and chemical-resistant gloves when handling treated seed. DO NOT use for feed, food or oil processing. Store away from feeds and other foodstuffs. Any spilled or exposed seeds must be incorporated into the soil or otherwise cleaned-up from the soil."
- For use with commercial seed treaters (facilities and mobile treaters) with closed transfer including closed mixing, loading, calibrating, and closed treatment equipment only. No open transfer of Acceleron D-281 Seed Treatment Fungicide is permitted.

Section 3: First Aid and Toxicological Information

FIRST AID:

IF SWALLOWED: Call a poison control centre 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 centre 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 eye. Call a poison control centre or doctor 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 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 by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

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

TOXICOLOGICAL INFORMATION:

There is no specific antidote if this product is ingested. Treat symptomatically.

Section 4: Environmental Precautions and Information

ENVIRONMENTAL PRECAUTIONS:

Toxic to aquatic organisms. Toxic to birds. Any spilled or exposed seeds must be incorporated into the soil or otherwise cleaned up from the soil surface.

Section 5: Storage

Store product in original container only, away from other pesticides or fertilizers. Store this product away from food or feed. Keep container closed. Store in a cool, dry place and avoid excessive heat.

Section 6: Disposal

FOR NON-RETURNABLE CONTAINERS:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the mixture in the tank.
2. Follow provincial/territorial 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/territorial 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 container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial/territorial 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 rinsate can be added to the seed treatment. Follow these steps for rinsing of containers:

1. Transfer ACCELERON D-281 Seed Treatment Fungicide 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 rinsate to the applicator tank.
4. Rinse as above 2 more times.
5. Thoroughly mix the ACCELERON D-281 Seed Treatment Fungicide and rinse water in the applicator tank prior to use.

CAUTION: Be sure to adjust the undiluted application rate by the same volume of water added to compensate for the dilution of the product caused by the addition of rinsate.

DISPOSAL OF UNUSED, UNWANTED PRODUCT:

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

DISPOSAL OF TREATED SEED:

Dispose of all excess treated seed. Left over treated seed may be double-sown around the headland or buried away from water sources in accordance with local requirements. Dispose of seed packaging in accordance with local requirements. **DO NOT** re-use bags from treated seed to handle food or feed products.

Section 7: Notices

NOTICE TO USER: This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is

inconsistent with the directions on the label.

DIRECTIONS FOR USE

ACCELERON D-281 Seed Treatment Fungicide is a seed treatment formulation for use in commercial seed treatment operations with conventional seed treating equipment which can accurately meter, mix and apply flowable seed treatment formulations. Allow seeds to dry before bagging, storing or seeding.

This product is recommended to be diluted with water or another suitable liquid just prior to application to ensure uniform coverage to the seed during the application process. Uniform application to seed is necessary to ensure best disease protection and seed safety.

When applied with seed treatment application equipment designed to treat seed utilizing a treatment slurry mixture, add approximately 1/2 to 2/3 of the required water to the treatment slurry tank followed by the accompanying seed treatment products and ACCELERON D-281. The order of product addition is dependent on the accompanying seed treatment products and application equipment used. Allow each slurry component to disperse completely prior to the next addition until a uniform suspension is obtained. After all slurry components have been added and dispersed completely add the remaining 1/2 to 1/3 of required water for proper slurry volume and mix until uniform. Do not store mixed slurries for greater than 72 hours. Maintain adequate agitation until treatment slurry is applied. For additional instructions for use, slurry component mixing order, and other application suggestions contact your Bayer CropScience representative.

ACCELERON D-281 Seed Treatment Fungicide-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.

As this product is not registered for the control of pests in aquatic systems, DO NOT use to control aquatic pests.

DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

Section 8: Pests Controlled

ACCELERON D-281 is a broad spectrum seed treatment labeled for the control of seed rot and pre-emergence damping off caused by seed-borne *Aspergillus* spp. and *Penicillium* spp., and the suppression of seed-borne *Colletotrichum graminicola* which may lead to the suppression of anthracnose stalk rot caused by seed-borne *C. graminicola* later in the growing season.

Section 9: Recommended Uses

Crop	Diseases	Acceleron D-281 Application Rates ¹		
		mL / 100 kg seed	mL / 80,000 seed unit	mg a.i. / seed ^{2,3}
Field corn (including corn grown for seed)	Control of seed rot and pre-emergence damping off caused by seed-borne <i>Aspergillus</i> spp. and <i>Penicillium</i> spp	10.4 – 20.8	2.24 – 4.48	0.014 – 0.027
	Suppression of seed-borne <i>Colletotrichum graminicola</i>	62.59 – 125.2	13.51 – 26.98	0.0811 - 0.162

¹Do not apply more than 0.568 kg of fluoxastrobin active ingredient per hectare per year, including seed treatment or foliar applications.

²Rate is calculated based on number of seeds/kg averages of field corn (3706).

³ Application at the higher labelled rates may lead to the suppression of anthracnose stalk rot caused by seed-borne *C. graminicola* later in the growing season. Use the highest rate only when heavy disease pressure is anticipated.

TANK-MIXTURES

CROP	TANK-MIX PARTNER
Corn	Vortex FL Trilex FS Allegiance FL Poncho 600 FS EverGol Xtend C PTZ 480 SC

ACCELERON D-281 Seed Treatment Fungicide may be tank mixed with a fertilizer, a supplement, or with registered pest control products, whose labels also allow tank mixing, provided the entirety of both labels, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones are followed for each product. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed. Do not tank mix products containing the same active ingredient unless specifically listed on this label.

In some cases, tank mixing pest control products can result in reduced pesticide efficacy or increased host crop injury. The user should contact Bayer CropScience Inc. at 1-888-283-6847 or www.cropscience.bayer.ca for information before applying any tank mix that is not specifically recommended on this label.

Bayer CropScience Inc. has not fully assessed performance (efficacy) and/or crop tolerance (phytotoxicity) of all potential tank mixes under all environmental conditions or for all crop varieties. Conduct a germination test on a small portion of seed before committing the total seed lot to tank mixes that are not specifically listed on this label.

Section 10: Application Cautions

SEED QUALITY: Lab and field studies have shown that ACCELERON D-281 Seed Treatment Fungicide-treated seed can be stored without loss in germination or disease performance. Many seed types are prone to mechanical damage during seed handling, and a reduction in germination within a seed lot can occur should handling cause seed damage irrespective of seed treatment application. ACCELERON D-281 Seed Treatment Fungicide-treated or untreated seed may drop in germination with age and germination drops are accelerated under adverse storage conditions or in seed with a high level of mechanical damage. Use handling equipment designed to minimize mechanical damage when moving seed. Due to seed quality and seed storage conditions beyond the control of Bayer CropScience, no claims are made to guarantee the germination of carry-over seed or propagating materials for all crop seed. Treatment of highly mechanically scarred or damaged seed, or seed known to be of low vigour and poor quality, may result in reduced germination and/or reduction of seed and seedling vigour. Treat a small quantity of seed using equipment similar to that planned for treating the total seed lot. Conduct germination tests on a small portion of seed before committing the total seed lot to a selected seed treatment.

COLOURATION OF TREATED SEED: This product contains no pigment and will not colour the treated seed. However, users are responsible for ensuring that the treated seed, when dried and ready for bagging, storage or seeding, has an unnatural colour. Additional colourant must be added to the mixture while treating the seed. Regulations pertaining to colouration of treated seed enforced under the *Seeds Act* must be strictly adhered to when using this product.

Section 11: Use Limitations

USE RESTRICTIONS:

- Treated seed must not be used for food, feed or oil processing.

LABELLING TREATED SEED:

All bags containing treated seed must be labelled or tagged as follows: “This seed has been treated with ACCELERON D-281 Seed Treatment Fungicide, which contains fluoxastrobin. Wear long-sleeved shirt, long pants, shoes plus socks, and chemical-resistant gloves when handling treated seed. DO NOT use for feed, food or oil processing. Store away from feeds and other foodstuffs.

Toxic to birds. Any spilled or exposed seeds must be incorporated into the soil or otherwise cleaned up from the soil surface.”

Section 12: Resistance Management Recommendations

For resistance management, please note that ACCELERON D-281 Seed Treatment Fungicide contains a Group 11 fungicide. Any fungal population may contain individuals naturally resistant to ACCELERON D-281 Seed Treatment Fungicide and other Group 11 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 ACCELERON D-281 Seed Treatment Fungicide or other Group 11 fungicides with different groups that control the same pathogens.
- Use tank mixtures with fungicides from a different group that is effective on the target pathogen when such use is permitted.
- Fungicide use should be based on an integrated disease management program that includes scouting, historical information related to pesticide use and crop rotation and considers host plant resistance, impact of environmental conditions on disease development, disease thresholds, as well as cultural, biological and other chemical control practices. Where possible, make use of predictive disease models to effectively time fungicide application. Monitor treated fungal populations for resistance development. Notify Bayer CropScience Inc. if reduced sensitivity of the pathogen to Acceleron D-281 is suspected. 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 site of action, if available. 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 Bayer CropScience Inc at 1-888-283-6847 or at www.bayercropscience.ca.