

2023-0007
2023-05-25

GROUP	BM-02	FUNGICIDE
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AVODIGEN™

BIOLOGICAL FUNGICIDE/NEMATICIDE

SUSPENSION

LIVE ORGANISM

COMMERCIAL

Biological fungicide/nematicide seed treatment for the partial suppression of certain fungal diseases and nematodes in labelled crops.

ACTIVE INGREDIENT:

Bacillus licheniformis strain FMCH001.....minimum of 2.3×10^{10} viable spores/mL
Bacillus subtilis strain FMCH002.....minimum of 2.3×10^{10} viable spores/mL

POTENTIAL SENSITIZER

READ THE LABEL AND ACCOMPANING BOOKLET BEFORE USING

KEEP OUT OF REACH OF CHILDREN

IN CASE OF EMERGENCY, CALL 1-800-331-3148 (24 HOURS)

REGISTRATION NO. 33311
PEST CONTROL PRODUCTS ACT

NET CONTENTS: **1L – 1000L**
Date of Manufacture: _____
Label

FMC of Canada Limited
6755 Mississauga Road, Suite 204
Mississauga, ON L5N 7Y2
1-833-362-7722

AVODIGEN™ contains no colourant. An appropriate colourant must be added when this product is applied to seed. Regulations pertaining to the "Seeds Act" must be strictly adhered to when using this product. Users are responsible for ensuring that the treated seed, when dried and ready for bagging, has an unnatural colour.

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.

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 on skin/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.

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.

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

TOXICOLOGICAL INFORMATION:

Treat symptomatically.

PRECAUTIONS:

KEEP OUT OF REACH OF CHILDREN. May cause sensitization. Avoid contact with eyes, skin or clothing. Avoid breathing in dust or mist. Wear a long-sleeved shirt, long pants, shoes with socks, water-proof gloves and NIOSH approved particulate filtering facepiece respirator with any N, R, P filter when handling and during all clean-up and repair activities. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

ENVIRONMENTAL PRECAUTIONS:

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 wash water.

COLOURING OF TREATED SEED

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LABELLING OF TREATED SEED

All bags containing treated seed must be labelled or tagged as follows:

- This seed has been treated with AVODIGEN™ which contains *Bacillus licheniformis* strain FMCH001 and *Bacillus subtilis* strain FMCH002. Do not use for feed, food or oil processing. Augers used for handling treated seed should not be used to move seed for

feed, food or oil processing. Do not re-use bags from treated seed to handle food or feed products Store away from feeds and other foodstuffs.

- When planting or handling treated seed, workers must wear a long-sleeved shirt, long pants, water-proof gloves, shoes with socks and a NIOSH approved particulate filtering facepiece respirator with any N, R, P filter. For planters and handlers using closed systems, the requirements for water-proof gloves and respirator may be waived. However, this equipment must be immediately available for use in emergency such as a spill or equipment breakdown.

STORAGE:

To prevent contamination, store this product away from food or feed. Store in a dry area inaccessible to children. Store at temperatures $\leq 25^{\circ}\text{C}$. Do not freeze. This product should be used within 24 months from the date of manufacture. Store in original container only. Keep container closed when not in use.

DISPOSAL:

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 spray 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 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 reuse this container for any other purpose.

For returnable container:

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

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.

IN CASE OF EMERGENCY CONTACT 1-800-331-3148 (24 HOURS).

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TOXICOLOGICAL INFORMATION:

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PRECAUTIONS:

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GENERAL INFORMATION:

AVODIGEN™ is a biological seed treatment fungicide/nematicide that provides early season partial suppression of *Rhizoctonia solani* during the seedling stage of corn, soybean and sunflower, partial suppression of seed rot and seedling blight caused by *Rhizoctonia solani* on canola, mustard (condiment and oil) and rapeseed, partial suppression of seed rot and seedling blight caused by *Fusarium* spp. and provides partial suppression of root knot nematode in corn and soybean, root lesion nematode in corn, and soybean cyst nematode in soybean.

DIRECTIONS FOR USE:

TANK MIXING:

This product 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 FMC at 1-833-362-7722 for information before applying any tank mix that is not specifically recommended on this label.

Seed Treatment Equipment:

AVODIGEN™ may be used both for commercial and for on-farm application. It can be applied with mechanical, slurry, or mist-type seed treating equipment, as long as the equipment can be calibrated to accurately and uniformly apply the product to seed without undue mechanical damage to the seed. Uniform application to seed is important for all seed treatment products.

Seed should be sound and well-cured before treatment. Refer to the label rates under APPLICATION INSTRUCTIONS. AVODIGEN™ is typically diluted with water and/or mixed with other products to attain an appropriate slurry application volume to provide effective treating. The appropriate volume of slurry depends on crop, weather, type of treating equipment and other factors and should be adjusted as per normal treating practices for the circumstances. Contact your local supplier or distributor representative for specific recommendations.

AVODIGEN™ plus water and/or other treatments should be mixed thoroughly prior to treating seed. Recalibrate treating equipment to compensate for the required slurry rate to ensure all products are applied at the correct rate.

COLOURING OF TREATED SEED

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- When planting or handling treated seed, workers must wear a long-sleeved shirt, long pants, water-proof gloves, shoes with socks and a NIOSH approved particulate filtering facepiece respirator with any N, R, P filter. For planters and handlers using closed systems, the requirements for water-proof gloves and respirator may be waived. However, this equipment must be immediately available for use in emergency such as a spill or equipment breakdown.

APPLICATION INSTRUCTIONS:

CORN	
CROPS	Corn (field, sweet, pop and corn grown for seed)
PEST	Partial suppression of seed rot and seedling blight caused by <i>Rhizoctonia solani</i> . Partial suppression of seed rot and seedling blight caused by <i>Fusarium</i> spp. Partial suppression of root knot nematode Partial suppression of root lesion nematode
USE RATE	8.7 mL/ seed unit (80,000 seeds)
APPLICATION DIRECTIONS	Apply as a seed treatment prior to planting.
USE RESTRICTIONS	Check with the manufacturer on the compatibility of AVODIGEN™ with any tank mix product. Follow the instructions of each tank-mix partner label regarding the recommended maximum length of storage of the spray solution before treatment of seed.
SOYBEAN	
CROPS	Soybean
PEST	Partial suppression of seed rot and seedling blight caused by <i>Rhizoctonia solani</i> Partial suppression of seed rot and seedling blight caused by <i>Fusarium</i> spp. Partial suppression of root knot nematode and soybean cyst nematode
USE RATE	15.2 mL/unit (140,000 seeds)
APPLICATION DIRECTIONS	Apply as a seed treatment prior to planting.
USE RESTRICTIONS	Check with the manufacturer on the compatibility of AVODIGEN™ with any tank mix product. Follow the instructions of each tank-mix partner label regarding the recommended maximum length of storage of the spray solution before treatment of seed.

SUNFLOWER	
CROPS	Sunflower
PEST	Partial suppression of seed rot and seedling blight caused by <i>Rhizoctonia solani</i>
USE RATE	10.9 mL/100,000 seeds
APPLICATION DIRECTIONS	Apply as a seed treatment prior to planting.
USE RESTRICTIONS	Check with the manufacturer on the compatibility of AVODIGEN™ with any tank mix product. Follow the instructions of each tank-mix partner label regarding the recommended maximum length of storage of the spray solution before treatment of seed.
CANOLA, MUSTARD, RAPESEED	
CROPS	Canola, mustard (condiment and oil) and rapeseed
PEST	Partial suppression of seed rot and seedling blight caused by <i>Rhizoctonia solani</i>
USE RATE	225 to 300 mL per 100 kg of seed
APPLICATION DIRECTIONS	Apply as a seed treatment prior to planting. Use the higher rate for higher disease pressure or when not co-applied with another synthetic seed treatment fungicide targeting <i>Rhizoctonia solani</i> .
USE RESTRICTIONS	Check with the manufacturer on the compatibility of AVODIGEN™ with any tank mix product. Follow the instructions of each tank-mix partner label regarding the recommended maximum length of storage of the spray solution before treatment of seed.

USE RESTRICTIONS:

To ensure uniformity, mix product well before use. Care must be exercised in the handling of treated seed. Augers used for handling treated seed should not be used to move seed for feed, food or oil processing. Do not re-use bags from treated seed to handle food or feed products.

AVODIGEN™ may be applied in mixture with other registered seed treatment products, including Maxim® 480FS, Allegiance™ FL, Apron XL® LS and Apron MAXX® RFC. Do not use with other seed treatment products unless compatibility has been first verified. Read and follow carefully all label directions of each combination product. When using combinations of products, the most restrictive of label limitations and precautions must be followed.

Treatment of mechanically damaged seed or seed of low vigor or poor quality may result in reduced germination. Treat and conduct germination tests on a small test sample of seed before using this product on commercial quantities. Due to seed quality and seed storage conditions beyond the control of FMC, FMC makes no claims or guarantees as to germination of carry-over seed.

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All other products (Maxim, Allegiance and Apron) listed are trademarks of their respective companies.