

2021-6665
2022-07-19

GROUP	U17	FUNGICIDE
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VAYANTIS® Seed Treatment

FUNGICIDE

AGRICULTURAL

SUSPENSION

Seed treatment for control of seed rot/pre- or post-emergence damping-off caused by *Pythium* spp. on listed crops, as well as seed rot/pre- and post-emergence damping-off caused by *Phytophthora sojae* on soybean.

ACTIVE INGREDIENT:

Picarbutrazox 400 g/L

Contains 1,2-benzisothiazolin-3-one at 0.035 % as a preservative. Contains 5-chloro-2-methyl-4-isothiazolin-3-one at 0.001% as a preservative and 2-methyl-4-isothiazolin-3-one at 0.0003% as a preservative. Contains 2-Bromo-2-nitro-1,3-propanediol at 0.027% as a preservative.

**READ THE LABEL AND ATTACHED BOOKLET BEFORE USING
KEEP OUT OF REACH OF CHILDREN**

Warning, contains the allergen soy.

REGISTRATION NO: **34138**
PEST CONTROL PRODUCTS ACT

NET CONTENTS: **1 L – 1050 L**

Syngenta Canada Inc.
140 Research Lane, Research Park
Guelph, Ontario N1G 4Z3
Telephone: 1-877-964-3682

Label

Special Use Restrictions:

This product contains no colourant. All seed treated with this product must be conspicuously coloured at the time of treatment. Regulations pertaining to the "Seeds Act" must be strictly adhered to when using this product.

On-farm or commercial seed treatment (facilities and mobile treaters) with open or closed transfer treatment equipment is permitted.

1.0 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.

2.0 FIRST AID

IF POISONING IS SUSPECTED, IMMEDIATELY contact a physician or a poison control centre. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

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 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.

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.

3.0 TOXICOLOGICAL INFORMATION

Treat symptomatically.

4.0 PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN AND DOMESTIC ANIMALS. Wash hands and face after handling and before eating, using tobacco (including smoking), applying cosmetics, or using the toilet. Avoid contamination of feed and foodstuffs.

Treat seed in a well-ventilated area.

Apply only in a way that this product will not contact workers or other persons, either directly or through drift. Only workers wearing personal protective equipment may be in the area where treating, bagging, sewing and/or stacking is occurring.

NOTE: In case of accident, take the product label to the emergency facility or physician.

If this pest control product is to be used on a commodity that may be exported to other countries in the world and you require information on acceptable residue levels in these countries, please contact Syngenta Canada Inc. at 1-87-SYNGENTA / 1-877-964-3682.

5.0 PERSONAL PROTECTIVE EQUIPMENT (PPE)

For commercial seed treatment:

During mixing, loading, application, cleaning, bagging, sewing and stacking, wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes. For good hygiene practice, it is also recommended to wear a NIOSH-approved N95 (minimum) filtering facepiece respirator (dust mask) that is properly fit tested during all job activities.

When handling and planting treated seed wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes. Gloves are not required within a closed-cab tractor. For good hygiene practice, it is also recommended to wear a NIOSH-approved N95 (minimum) filtering facepiece respirator (dust mask) that is properly fit tested during all job activities.

For on-farm treating and planting:

Wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks, and shoes during mixing, loading, treating, calibrating, clean-up, repair and any other activities involving planting and handling of treated seeds. Wear a NIOSH-approved N95 (minimum) filtering facepiece respirator (dust mask) that is properly fit tested when transferring treated seed to the planter/seeder.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exists, use detergent and hot water. Keep and wash PPE separately from other laundry.

6.0 ENVIRONMENTAL PRECAUTIONS

Toxic to aquatic organisms.

Any spilled or exposed seeds must be incorporated into the soil or otherwise cleaned-up from the soil surface.

This product demonstrates the properties and characteristics associated with chemicals detected in groundwater. The use of this product in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

7.0 USE RESTRICTIONS

1. Treated seed must not be used for food, feed or oil processing.
2. Gloves are not required within a closed-cab tractor.
3. Store away from food and feed. **KEEP TREATED SEED OUT OF REACH OF CHILDREN AND ANIMALS.**
4. Do not sow any crop other than those in Crop Group 15 (Cereal grains); soybeans; members of Crop Subgroup 6C (Dried shelled peas and beans, chickpeas, lentils, lupins and faba beans); or members of Crop Subgroup 20A (Canola/rapeseed subgroup); within 30 days to fields in which seed treated with VAYANTIS® Seed Treatment were planted.
5. All containers or packages containing treated seed for sale or use in Canada must be labelled or tagged as follows: **"This seed has been treated with VAYANTIS Seed Treatment, which contains picarbutrazox. Do not use for feed, food or oil processing. Store this product**

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8.0 STORAGE

Keep in original container, tightly closed, during storage. Store in a cool, dry, well-ventilated area away from other pesticides, feed and foodstuffs, and out of the reach of children and animals. To prevent contamination, store this product away from food or feed.

Ideal storage temperature is above freezing and below 30 °C. If the product should freeze, bring the product back to room temperature and ensure the contents are mixed well prior to application.

9.0 DISPOSAL

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.

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 Returnable Containers:

DO NOT reuse this container for any purpose. For disposal, the 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 reuse this container for any other purpose.

***IN CASE OF EMERGENCY INVOLVING A MAJOR SPILL, FIRE OR POISONING,
CALL 1-800-327-8633 (FASTMED)***

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Pamphlet

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2. Gloves are not required within a closed-cab tractor.
3. Store away from food and feed. **KEEP TREATED SEED OUT OF REACH OF CHILDREN AND ANIMALS.**
4. Do not sow any crop other than those in Crop Group 15 (Cereal grains); soybeans; members of Crop Subgroup 6C (Dried shelled peas and beans, chickpeas, lentils, lupins and faba beans); or members of Crop Subgroup 20A (Canola/rapeseed subgroup); within 30 days to fields in which seed treated with VAYANTIS® Seed Treatment were planted.
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Ideal storage temperature is above freezing and below 30 °C. If the product should freeze, bring the product back to room temperature and ensure the contents are mixed well prior to application.

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IN CASE OF EMERGENCY INVOLVING A MAJOR SPILL, FIRE OR POISONING,

CALL 1-800-327-8633 (FASTMED)

10.0 GENERAL INFORMATION

VAYANTIS Seed Treatment is a seed treatment fungicide which controls seed and seedling diseases caused by soil-borne *Pythium* spp. in a variety of listed crops , as well as *Phytophthora sojae* in soybeans.

Handling of highly mechanically scarred or damaged seed, or seed known to be of low vigour and poor quality, except for the purpose of curative control of existing disease pests, may result in reduced germination and/or reduction of seed and seedling vigour. Conduct germination tests on a small portion of the seed before committing the total seed lot to a selected seed treatment. Treat using equipment similar to that planned for treating the total seed lot. Due to seed quality and seed storage conditions beyond the control of Syngenta Canada Inc., no claims are made to guarantee the germination of carry-over field corn, sweet corn and popcorn seed.

11.0 DIRECTIONS FOR USE

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

VAYANTIS Seed Treatment mixes easily with water. When mixing with products from other manufacturers, the compatibility should be tested prior to use by conducting a jar test; mixing all intended seed treatments with the appropriate amount of water in a clear glass container, mix well, and allow to sit for one hour. Remix and observe for incompatibility.

VAYANTIS Seed Treatment may be applied as a seed treatment following the guidelines specified in the Directions for Use section of this label. Ensure product is thoroughly mixed prior to application. Apply VAYANTIS Seed Treatment as a water-based slurry utilizing standard slurry seed treatment equipment that provides uniform seed coverage. Uneven or incomplete seed coverage may not give the desired level of disease control. Thoroughly mix the recommended amount of VAYANTIS Seed Treatment into the required amount of water for the slurry treater and dilution rate to be used. Follow the manufacturer's application instructions for the seed treatment equipment being used. Maintain constant agitation of the slurry during the seed treatment process. Allow the seed to dry before bagging.

Depending on planting equipment, seed treated with VAYANTIS Seed Treatment or a combination of VAYANTIS Seed Treatment and other seed treatment products may not flow through planting equipment at the same rate as untreated seed. Recalibrate the equipment before planting treated seed.

12.0 USE RATES

12.1 Legume Vegetables

LEGUME VEGETABLES	
CROPS	Soybeans
PEST	Control of seed rot/pre-emergence damping-off and post-emergence damping-off caused by <i>Pythium</i> spp.
RATE	2.5 – 6.25 mL/100 kg seed (1 – 2.5 g ai/100 kg seed) 0.53 - 1.33 mL product/140,000 seed This rate is equivalent to 0.0038 – 0.0095 uL/seed (0.0015 – 0.00375 mg ai/seed), based on a seed weight of 6600 seeds/kg.
APPLICATION METHOD	Seed treatment
NOTES	The minimum rate may be used in fields with a known low level of damping-off. Use a rate in the upper end of the rate range where there is a field history of damping-off.
RESTRICTIONS	This product contains no colourant. An appropriate colourant must be added when this product is applied to the seed.
PEST	Control of seed rot and pre- and post-emergence damping-off caused by <i>Phytophthora sojae</i> .
RATE	6.25 mL/100 kg seed (2.5 g ai/100 kg seed) 1.33 mL product/140,000 seed This rate is equivalent to 0.0095 µL/seed (0.00375 mg ai/seed), based on a seed weight of 6600 seeds/kg.
APPLICATION METHOD	Seed treatment
NOTES	VAYANTIS Seed Treatment provides early season protection against <i>Phytophthora sojae</i> seed rot, pre- and post-emergence damping-off.
RESTRICTIONS	This product contains no colourant. An appropriate colourant must be added when this product is applied to the seed.
CROPS	Crop Subgroup 6C - Dried Shelled Pea and Bean Includes Dried Shelled Beans [<i>Lupinus</i> spp. (includes grain lupin, sweet lupin, white lupin and white sweet lupin); <i>Phaseolus</i> spp. (field bean, kidney bean, lima bean (dry), navy bean, pinto bean, tepary bean); <i>Vigna</i> spp. (includes adzuki bean, blackeyed pea, catjang, cowpea, Crowder pea, moth bean, mung bean, rice bean, southern pea, urd bean)]; broad bean; guar; lablab bean, Dried Shelled Peas (<i>Pisum</i> spp. includes field pea); Chickpeas; Lentils; pigeon pea and faba beans.
PEST	Control of seed rot/pre-emergence damping-off caused by <i>Pythium</i> spp.
RATE	3.125 – 6.25 mL/100 kg seed (1.25 – 2.5 g ai/100 kg seed)
APPLICATION METHOD	Seed treatment
NOTES	Use the high rate when the disease environment is conducive to high disease pressure.
RESTRICTIONS	This product contains no colourant. An appropriate colourant must be added when this product is applied to the seed.

12.2 Oilseeds

OILSEEDS	
CROPS	Crop Subgroup 20A - Canola/Rapeseed Subgroup Includes canola/rapeseed, borage, crambe, echium, flax seed, gold of pleasure, hare's ear mustard, lesquerella, lunaria, meadowfoam, milkweed, mustard seed, oil radish, poppy seed, sesame, sweet rocket and cultivars and hybrids of the above crops.
PEST	Control of seed rot/pre-emergence damping-off caused by <i>Pythium</i> spp.
RATE	3.125 – 6.25 mL/100 kg seed (1.25 – 2.5 g ai/100 kg seed) For control of diseases caused by <i>Pythium</i> spp. based on 200,000 seeds per kg (5.0 g/1000 seeds), VAYANTIS Seed Treatment delivers 0.0125 – 0.025 g ai/kg or 0.0625 – 0.125 µg active ingredient per seed.
APPLICATION METHOD	Seed treatment
NOTES	Use the high rate when the disease environment is conducive to high disease pressure.
RESTRICTIONS	This product contains no colourant. An appropriate colourant must be added when this product is applied to the seed.

12.3 Cereal Grains

CEREAL GRAINS	
CROPS	Corn (Field, Pop, Sweet, Seed)
PEST	Control of seed rot/pre-emergence damping-off and post-emergence damping-off caused by <i>Pythium</i> spp.
RATE	2.5 – 12.5 mL/100 kg seed (1 - 5 g ai/100 kg seed) 0.5 - 2.5 mL product/80,000 seeds This rate is equivalent to 0.0063 – 0.031 µL/seed (0.0025 – 0.0125 mg ai/seed), based on a seed weight of 4000 seeds/kg.
APPLICATION METHOD	Seed treatment
NOTES	The minimum rate may be used in fields with a known low level of pre-emergence damping-off; otherwise use a mid-rate, e.g., 6.25 mL/100 kg seed. Use a rate in the upper end of the rate range where there is a field history of post-emergence damping-off.
RESTRICTIONS	This product contains no colourant. An appropriate colourant must be added when this product is applied to the seed.
CROPS	Barley, Wheat, Buckwheat, Millet (Pearl and Proso), Rice, Oats, Rye, Sorghum, Teosinte, Triticale, Wild Rice
PEST	Control of seed rot/pre-emergence damping-off caused by <i>Pythium</i> spp.
RATE	3.125 – 6.25 mL/100 kg seed (1.25 – 2.5 g ai/100 kg seed)
APPLICATION METHOD	Seed treatment
NOTES	Use the high rate when the disease environment is conducive to high disease pressure.
RESTRICTIONS	This product contains no colourant. An appropriate colourant must be added when this product is applied to the seed.

12.4 Tank Mixes

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 Syngenta Canada Inc. at 1-87-SYNGENTA / 1-877-964-3682 for information before applying any tank mix that is not specifically recommended on this label.

Syngenta Canada 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. Tank mixes that are not specifically listed on this label should be tested on a small area first, under local conditions and using standard practices, to confirm the tank mix is suitable for widespread application.

To determine the physical compatibility of this product with other products, use a jar test.

Always read and follow label directions including WALES mixing order.

13.0 RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, VAYANTIS Seed Treatment contains picarbutrazox, a Group U17 fungicide. Any fungal population may contain individuals naturally resistant to VAYANTIS Seed Treatment and other Group U17 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 VAYANTIS Seed Treatment or other Group U17 fungicides with different groups that control the same pathogens.

Use tank mixtures with fungicides from a different group that are 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.

Monitor treated fungal populations for sign of resistance development. Notify Syngenta Canada Inc. if reduced sensitivity of the pathogen to VAYANTIS Seed Treatment 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 target 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 disease problems in your area.

For further information or to report suspected resistance, contact Syngenta company representatives at 1-877-SYNGENTA (1-877-964-3682) or at www.syngenta.ca.

VAYANTIS® is a trademark of a Syngenta Group Company.