

GROUP	4	7	12	U17	FUNGICIDES
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VAYANTIS® IV RFC

SEED TREATMENT FUNGICIDE

COMMERCIAL - AGRICULTURAL

SUSPENSION

A seed treatment product for control of seed- and soil-borne diseases in soybeans.

ACTIVE INGREDIENTS:

Sedaxane.....	1.81%
Metalaxyl-M and S-isomer	7.24%
Fludioxonil.....	1.81%
Picarbutrazox	1.81%

Contains 1,2-benzisothiazolin-3-one at 0.0046%, 2-bromo-2-nitropropane-1,3-diol at 0.018%, 5-chloro-2-methyl-4-isothiazolin-3-one at 0.0006%, and 2-methyl-4-isothiazolin-3-one at 0.00019% as preservatives.

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

Warning, contains the allergen soy

REGISTRATION NO: **34915**
PEST CONTROL PRODUCTS ACT

NET CONTENTS: **1 L – 1050 L**

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

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

ALL SEED TREATED WITH THIS PRODUCT MUST BE CONSPICUOUSLY COLOURED

Label

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 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 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 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 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.

3.0 TOXICOLOGICAL INFORMATION

There is no specific antidote. Treat symptomatically.

4.0 PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN AND DOMESTIC ANIMALS. Wash hands and face after handling the product or treated seeds and before eating, using tobacco (including smoking), applying cosmetics, or using the toilet. Do not contaminate food, feed, or domestic water supplies.

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 when seed is being treated or bagged.

VAYANTIS® IV RFC is for on-farm and commercial seed treatment (in facilities or with mobile treaters) on soybeans. Treat seed in a well-ventilated area. Keep treated seeds out of reach of children and animals.

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)

Seed Type	Tasks	PPE/ Engineering Controls
For Commercial Seed Treatment (including facility workers and mobile treaters)		
<i>All seed types</i>	Mixing, loading, treating, calibrating, bagging, sewing seed bags, stacking and any other activities involving handling treated seeds.	Open or closed transfer. During mixing, loading, treating and calibrating, bagging, sewing seed bags, stacking and any other activities involving handling treated seeds wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks, shoes and a NIOSH-approved N95 (minimum) filtering facepiece respirator (dust mask) that is properly fit tested.
	Cleaning and repairing	During cleaning and repairing, wear chemical-resistant coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks, chemical-resistant footwear and a NIOSH-approved N95 (minimum) filtering facepiece respirator (dust mask) that is properly fit tested.
For On-Farm Seed Treatment		
<i>All seed types</i>	Mixing, loading, treating, calibrating, cleaning, repairing and any other activities involving planting and handling of treated seeds	Open or closed transfer. During mixing, loading, treating, calibrating, cleaning, repairing and any other activities involving planting and handling of treated seeds, wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks, and shoes, and a NIOSH-approved N95 (minimum) filtering facepiece respirator (dust mask) that is properly fit tested. Gloves and respirator are not required within a closed cab.
For Planting and Handling Treated Seed		
<i>All seed types</i>	Planting	During planting and handling of treated seeds and any other activities involving calibrating, clean-up, and repair wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks, and shoes, and a NIOSH-approved N95 (minimum) filtering facepiece respirator (dust mask) that is properly fit tested. Gloves and respirator are not required within a closed cab.

Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Wash splashes from skin IMMEDIATELY with plenty of water. Remove PPE immediately after handling this product. Wash the outside of gloves with soap and water before removing. As soon as possible, wash thoroughly and change into clean clothing. After spraying, wash hands and shower thoroughly with soap and water.

Heavily contaminated or drenched clothing and other absorbent materials contaminated with this product should be discarded. Do not reuse them.

Users should wash hands and exposed skin before eating, drinking, chewing gum, using tobacco, applying cosmetics or using the toilet.

While using product, do not eat, drink or use tobacco (including smoking).

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

Wear freshly laundered clothes daily.

Do not wear contaminated shoes.

6.0 ENVIRONMENTAL PRECAUTIONS

TOXIC to aquatic organisms.

Toxic to birds and small wild mammals.

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. Store away from food and feed, and out of the reach of children and animals.
3. Do not graze or feed livestock on treated area for 45 days after planting soybean.
4. All bags containing treated seed for sale or use in Canada must be labeled or tagged as follows: **"This seed has been treated with sedaxane, metalaxyl-M and S-isomer, fludioxonil, and picarbutrazox. During planting and handling of treated seeds and any other activities involving calibrating, clean-up, and repair, wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks, and shoes, and a NIOSH-approved N95 (minimum) filtering facepiece respirator (dust mask) that is properly fit tested. Gloves and respirator are not required within a closed cab. Follow rotational crop restrictions as outlined on the product label. Do not graze or feed livestock or cut for hay on seeded area for 45 days after planting soybean. Do not use for food, feed or oil processing. Store away from food and feedstuffs. KEEP TREATED SEED OUT OF REACH OF CHILDREN AND ANIMALS. Do not contaminate food, feed or domestic water supplies. This product is toxic to fish and other aquatic organisms. Do not apply directly to aquatic habitats. Any spilled or exposed seeds must be incorporated into the soil or otherwise cleaned up from the soil surface."**

8.0 STORAGE

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

Ideal storage temperature is above freezing and below 30°C. If 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.

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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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CALL 1-800-327-8633 (FASTMED)***

10.0 PRODUCT INFORMATION

VAYANTIS IV RFC is a seed treatment product containing the active ingredients fludioxonil, metalaxyl-M and S-isomer, sedaxane, and picarbutrazox. This product controls a broad spectrum of seed- and soil-borne diseases in soybeans.

NOTE: Treatment 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, reduced emergence 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 the seed before committing the total seed lot to a selected seed treatment. 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 treated seed.

11.0 DIRECTIONS FOR USE

11.1 General Information

VAYANTIS IV RFC is a seed treatment formulation for use in commercial seed treatment (in facilities or with mobile treaters) and for on-farm treatment using seed treatment equipment that accurately meters, mixes and applies a flowable seed treatment. Apply VAYANTIS IV RFC utilizing 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 IV RFC with the required amount of water for the slurry treater and dilution rate to be used. Slurry volumes will vary depending on seed size. Follow the manufacturer's application instructions for the seed treatment equipment being used. Maintain constant agitation of the slurry during the treatment. Allow the seed to dry before bagging or storing into bulk containers. Depending on planting equipment, seed treated with VAYANTIS IV RFC may not flow through planting equipment at the same rate as untreated seed. Recalibrate this equipment before planting treated seed.

VAYANTIS IV RFC 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.

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

11.2 Seed Treatment and Inoculants

VAYANTIS IV RFC is compatible with Rhizobium based inoculants. Please check with inoculant manufacturers for specific planting windows and methods of application prior to use. Consult the manufacturer of the application equipment planned to be used for suitability for this application **and for instructions on operation and calibration of the equipment. Mixing with inoculants may increase drying time while treating, extending the processing time.**

This product contains a pigment that will colour treated seed; however, users are responsible for ensuring that the treated seed, when dried and ready for bagging, has an unnatural colour. If the pigment contained in the formulation does not colour the seed adequately, 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.

11.3 Rotational Crop Restrictions

CROPS	PLANT BACK INTERVAL
Soybean, Corn (popcorn, field, sweet)	0 days
Crop Subgroup 1C (Tuberous and corm vegetables), Crop Subgroup 6C (Dried shelled pea and bean, except soybean), barley, oats, rapeseeds (canola), rye, triticale, wheat, borage seeds, buckwheat, echium seeds, flaxseeds, gold of pleasure seeds, hare's ear mustard seeds, milkweed seeds, mustard seeds (oilseed type), oil radish seeds, pearl millet, poppy seeds, proso millet, sorghum, sweet rocket seeds, teosinte, wild rice, sugar beets	30 days
All other crops	60 days

12.0 CROP USE DIRECTIONS

12.1 Soybeans

For control of labelled seed-borne and soil-borne diseases on soybeans, apply 130 mL of VAYANTIS IV RFC per 100 kg soybean seed. To obtain optimal coverage, apply 130 mL of VAYANTIS IV RFC with a minimum volume of 195 mL consisting of either water, other fungicide(s), insecticide(s), and/or Rhizobia inoculant(s) (at rates recommended by the manufacturer) to achieve a proper total slurry volume of 325 mL per 100 kg of seed. At this rate, VAYANTIS IV RFC delivers 2.5 g of sedaxane, 2.5 g of fludioxonil, 10 g of metalaxyl-M and S-isomer, and 2.5 g of picarbutrazox per 100 kg of seed.

CROP	Soybeans
DISEASES CONTROLLED	Seed rot/pre-emergence damping-off, post-emergence damping-off and seedling blight caused by <i>Fusarium</i> spp., <i>Pythium</i> spp. and <i>Rhizoctonia</i> spp. Seedling root rot caused by <i>Fusarium</i> spp. Seed rot and seedling blight caused by seed-borne <i>Phomopsis</i> spp. Seed rot, pre-emergence damping off, and post-emergence damping off caused by <i>Phytophthora sojae</i>
RATE	130 mL/100 kg seed (17.5 g ai/100 kg seed) 27.6 mL/unit (140,000 seeds) This rate is equivalent to 0.197 µL/seed (0.027 mg ai/seed), based on a seed weight of 6600 seeds/kg.
APPLICATION METHOD	Seed Treatment
NOTES	Do not graze or feed livestock on treated area for 45 days after planting soybean.

12.2 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 IV RFC contains Group 4, 7, 12, and U17 fungicides. Any fungal population may contain individuals naturally resistant to VAYANTIS IV RFC and other Group 4, 7, 12, and 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 IV RFC or other Group 4, 7, 12, and U17 fungicides with different groups that control the same pathogens.

Use tank mixtures with fungicide from a different group that is effective on the target pathogen when such use is permitted.

Fungicide use should be based on an integrated pest management (IPM) 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 resistance development. Notify Syngenta Canada Inc. if reduced sensitivity of the pathogen to VAYANTIS IV RFC 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 pathogens.

For further information or to report suspected resistance, contact company representatives at 1-87-SYNGENTA (1-877-964-3682) or at www.syngenta.ca.

VAYANTIS® is a trademark of a Syngenta Group Company.