

VIBRANCE® TRIO

SEED TREATMENT FUNGICIDE

COMMERCIAL- AGRICULTURAL

SUSPENSION

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

ACTIVE INGREDIENTS:

Sedaxane.....	24.8 g/L
Metalaxyl-M and S-isomer	149.3 g/L
Fludioxonil.....	24.8 g/L

Contains 1,2-benzisothiazolin-3-one at 0.004%, 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: **33310**
PEST CONTROL PRODUCTS ACT

NET CONTENTS: **1 L – 1050 L**

ALL SEED TREATED WITH THIS PRODUCT MUST BE CONSPICUOUSLY COLOURED.

For use with commercial seed treaters (facilities and mobile treaters) and for use with on-farm seed treating equipment.

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

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

IN CASE OF POISONING, contact a doctor or a poison control centre **IMMEDIATELY**. 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. 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 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

Treat symptomatically.

4.0 PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN AND ANIMALS.

Do not contaminate food, feed, or domestic water supplies. DO NOT discharge effluent containing this product into sewer systems, lakes, streams, ponds, estuaries, oceans or other waters.

Apply this product to the seed only in a way that it 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.

VIBRANCE TRIO is for on farm and commercial seed treatment (in facilities or with mobile treaters) on listed crops. 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)

For commercial seed treatment:

Cleaners must wear chemical-resistant coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks and chemical-resistant footwear. Treaters, baggers, sewers, stackers, forklift operators and others must wear cotton coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes. A NIOSH approved N95 filtering facepiece respirator (dust mask) that is properly fit tested must be worn when bagging or sewing bags of treated seed or when transferring seed to a storage bin. For good hygiene practice, it is also recommended to wear a NIOSH-approved N95 filtering facepiece respirator (dust mask) that is properly fit tested during all job activities.

For on-farm treating and planting:

When treating seeds, handling and planting treated seed, workers must wear cotton coveralls or long sleeved shirt and long pants, chemical-resistant gloves, and work boots. In addition, wear a NIOSH-approved N95 filtering facepiece respirator (dust mask) that is properly fit tested or an appropriate respirator to minimize exposure to dust.

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. Do not apply directly to aquatic habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs, ditches and wetlands),

estuaries or marine habitats. Do not contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

Treated seed is 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.

7.0 USE RESTRICTIONS

1. Treated seed must not be used for food, feed or oil processing.
2. Store away from food, feed and out of the reach of children and animals.
3. Do not plant any crop other than cereals, corn, soybeans, members of Crop Subgroup 6C (Dried shelled peas and beans, chickpeas, lentils and fava beans) or members of Crop Subgroup 20A (Canola/rapeseed subgroup), within 60 days to fields in which treated seeds were planted.
4. Do not graze or feed livestock on treated area for 45 days after planting soybeans.
5. Do not graze or feed livestock on treated area for 60 days after planting members of Crop Subgroup 6C (Dried shelled peas and beans, chickpeas, lentils and dry broad beans).
6. All bags containing treated seed for sale or use in Canada must be labeled or tagged as follows: **“This seed has been treated with the fungicides metalaxyl-M and S-isomer, fludioxonil and sedaxane. When handling and planting treated seed, workers must wear cotton coveralls or long sleeved shirt and long pants, chemical-resistant gloves, and work boots. For good hygiene practice, it is also recommended to wear a NIOSH-approved N95 filtering facepiece respirator (dust mask) that is properly fit tested during all job activities. Do not use for food, feed or oil processing. Store away from food and feed. Keep out of reach of children and domestic animals. Do not contaminate food, feed or domestic water supplies Treated seed is 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.”**

8.0 STORAGE

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

Ideal storage temperature is above freezing and below 30 °C. Repeated freeze-thawing of VIBRANCE TRIO Seed Treatment will not affect the physical integrity of the product. 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.
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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,
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Pamphlet

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

10.0 PRODUCT INFORMATION

VIBRANCE TRIO is a seed treatment product containing the fungicides, fludioxonil, metalaxyl-M and S-isomer and sedaxane. This product controls a broad spectrum of seed- and soil-borne diseases in soybeans and crop subgroup 6C.

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.

NOTE: Experience has shown that strains of fungus resistant to metalaxyl-M may develop. Failure to control the disease will likely result in crop damage and/or yield losses. Since the occurrence of resistance cannot be foreseen, Syngenta Canada Inc. accepts no responsibility for any loss of, or damage to, crops resulting from the failure of VIBRANCE TRIO to control the resistant fungus strains. If disease appears in a treated field, consult the government extension specialist immediately.

11.0 DIRECTIONS FOR USE

11.1 General Information

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.

VIBRANCE TRIO 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. The equipment must provide uniform coverage of VIBRANCE TRIO on the seed. Uneven seed coverage may not give the desired level of disease control.

Thoroughly mix the recommended amount of VIBRANCE TRIO Seed Treatment 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, storing or seeding.

This product contains a pigment that will 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. 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. Follow instructions on the colourant package for mixing. Regulations pertaining to colouration of treated seed enforced under the "Seeds Act" must be strictly adhered to when using this product.

11.2 Seed Treatment and Inoculants:

VIBRANCE TRIO 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.

Seed treated with VIBRANCE TRIO, or a combination of VIBRANCE TRIO and seed inoculants, may not flow through a seed drill at the same rate as untreated seed. Recalibrate the seed drill before planting treated seed. Mixing with inoculants may increase drying time while treating, extending the processing time.

12.0 CROP USE DIRECTIONS

For control of labelled seed-borne and soil-borne diseases on soybeans, apply 100 mL of VIBRANCE TRIO Fungicide plus 225 mL of water (or Rhizobia inoculant at rates recommended by the manufacturer to achieve proper total slurry volumes) per 100 kg of seed. At this rate, VIBRANCE TRIO delivers 2.5 g of sedaxane, 15 g of metalaxyl-M and S-isomer, and 2.5 g of fludioxonil per 100 kg of seed. For chickpeas a total slurry volume of 650 mL per 100 kg of seed is recommended for optimal coverage.

12.1 Soybeans

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. Early season root rot caused by <i>Phytophthora megasperma</i> var. <i>sojae</i>
RATE	100 mL/100 kg seed (20 g ai total/100 kg seed) This rate is equivalent to 0.15 µL/seed (0.03 mg ai total/seed), based on a seed weight of 6600 seeds/kg.
APPLICATION METHOD	Seed Treatment

12.2 Pulses

CROP	Crop Subgroup 6C(Dried Shelled Peas and Beans): Any dried cultivar of bean (<i>Phaseolus</i> spp.); and dried cultivar of pea (<i>Pisum</i> spp.): dried cultivars of bean (<i>Lupinus</i> spp.) (includes grain lupin, sweet lupin, white lupin, and sweet white lupin); (<i>Vigna</i> spp.) (includes adzuki beans); (<i>Phaseolus</i> spp.) (includes field bean, kidney bean, lima bean (dry), navy bean, pinto bean, tepary bean, mung bean, rice bean, southern bean, urd bean); broad bean (dry); chickpea; guar; lablab bean; lentil; pea (<i>Pisum</i> spp.) (includes field pea); and pigeon pea
DISEASES CONTROLLED	Seed rot/pre-emergence damping-off and post-emergence damping-off caused by <i>Fusarium</i> spp., <i>Pythium</i> spp. and <i>Rhizoctonia</i> spp. Seedling blight caused by <i>Pythium</i> spp and <i>Rhizoctonia</i> spp. Anthracnose caused by seed-borne <i>Colletotrichum</i> spp.
RATE	100 mL/100 kg seed
APPLICATION METHOD	Seed Treatment

12.3 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, VIBRANCE TRIO contains Group 4, 7 and 12 fungicides. Any fungal population may contain individuals naturally resistant to VIBRANCE TRIO and other Group 4, 7 and 12 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 VIBRANCE TRIO or other Group 4, 7 and 12 fungicides with different groups that control the same pathogens.

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.

Where possible, make use of predictive disease models to effectively time fungicide applications.

Monitor treated fungal populations for resistance development. Notify Syngenta Canada Inc. if reduced sensitivity of the pathogen to VIBRANCE TRIO 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.

VIBRANCE® is a trademark of a Syngenta Group Company.