

GROUP	1	4	7	12	FUNGICIDES
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VIBRANCE® MAXX PULSES RTA

SEED TREATMENT FUNGICIDE

SUSPENSION

COMMERCIAL

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

ACTIVE INGREDIENTS:

Thiabendazole.....	46.1 g/L
Sedaxane.....	15.4 g/L
Metalaxyl-M and S-isomer.....	11.5 g/L
Fludioxonil.....	7.59 g/L

Contains 1,2-benzisothiazolin-3-one at 0.012%, 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**

CAUTION: EYE IRRITANT
Warning: contains the allergen soy

REGISTRATION NO: **33806** PEST CONTROL PRODUCTS ACT

NET CONTENTS: **1 L to 1050 L**

ALL SEED TREATED WITH THIS PRODUCT MUST BE CONSPICUOUSLY COLOURED

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

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. 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

NOTE TO PHYSICIAN: Treat symptomatically.

4.0 PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN AND DOMESTIC ANIMALS. May irritate eyes. Avoid contact with eyes. 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.

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.

Keep treated seeds out of reach of children and animals.

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

5.0 PERSONAL PROTECTIVE EQUIPMENT

For commercial seed treatment (including mobile treaters):

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 during mixing, loading, treating, calibrating, bagging, sewing seed bags, stacking and any other activities involving handling treated seeds.

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 during clean-up and repair 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/seedler.

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.

6.0 ENVIRONMENTAL PRECAUTIONS

This product is toxic to fish and other 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 LIMITATIONS

1. Do not use treated seed for food, feed or oil purposes.
2. Do not plant any crop other than cereals, corn, soybeans, members of Crop Subgroup 6C (Dried shelled peas and beans, chickpeas, lentils and faba beans) or members of Crop Subgroup 20A (Canola/rapeseed subgroup), within 60 days to fields in which treated seeds were planted.
3. Do not graze or feed livestock on treated area for 60 days after planting dried shelled pea and bean crops, chickpeas, lentils and faba beans.

NOTE:

Seed treated with VIBRANCE® MAXX PULSES RTA must be labelled with the following statements: **“This seed has been treated with the fungicides thiabendazole, sedaxane, metalaxyl-M and S-isomer, and fludioxonil. Wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks, and shoes during planting and handling of treated seeds and any other activities involving calibrating, clean-up, and repair. Wear a NIOSH-approved N95 (minimum) filtering facepiece respirator (dust mask) that is properly fit**

tested when transferring treated seed to the planter/seeder. Do not use for food, feed or oil processing. Store away from food and feed.”

8.0 STORAGE

Ideal storage temperature is above freezing and below 30 °C. Repeated freeze-thawing of VIBRANCE MAXX PULSES RTA 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.

To prevent contamination, store this product away from food or feed.

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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***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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3. Do not graze or feed livestock on treated area for 60 days after planting dried shelled pea and bean crops, chickpeas, lentils and faba beans).

NOTE:

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8.0 STORAGE

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

10. PRODUCT INFORMATION

VIBRANCE MAXX PULSES RTA is a ready-to-apply seed treatment product containing the fungicides, thiabendazole, sedaxane, metalaxyl-M and S-isomer and fludioxonil. This product controls a broad spectrum of seed- and soil-borne diseases in listed dried shelled pea and bean crops, chickpeas, lentils, lupins and faba beans.

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 fungi resistant to metalaxyl-M (and isomer) and fludioxonil 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 MAXX PULSES RTA 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

VIBRANCE MAXX PULSES RTA 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 MAXX PULSES RTA on the seed. Uneven seed coverage may not give the desired level of disease control. Allow the seed to dry before bagging, storing or seeding.

Thoroughly mix the recommended amount of VIBRANCE MAXX PULSES RTA 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.

11.2 Seed Treatment and Inoculants

VIBRANCE MAXX PULSES RTA 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.

Ideal storage temperature of bulk material is above freezing and below 30 °C.

Seed treated with VIBRANCE MAXX PULSES RTA, or a combination of VIBRANCE MAXX PULSES RTA 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.**

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.

12.0 CROP USE DIRECTIONS

For control of various seed-borne and soil-borne diseases on beans, lentils, lupins, faba beans, and peas, apply 325 mL of VIBRANCE MAXX PULSES RTA Fungicide

12.1 Dried Shelled Beans

CROP	Dried Shelled Beans [<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); guar (<i>Cyamopsis tetragonoloba</i>); lablab bean (<i>Lablab purpureus</i>)
DISEASE 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. Seed-borne <i>Sclerotinia sclerotiorum</i> Anthracnose caused by seed-borne <i>Colletotrichum</i> spp.
RATE	325 mL/100 kg seed

12.2

12.3 Dried Shelled Peas

CROP	Dried Shelled Peas (<i>Pisum</i> spp and <i>Cajanus cajan</i>)
DISEASE CONTROLLED	Seed-borne ascochyta blight and foot rot caused by <i>Ascochyta pinodes</i> 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. Seed-borne <i>Sclerotinia sclerotiorum</i>
RATE	325 mL/100 kg seed

12.4 Chickpeas

CROP	Chickpeas
DISEASE CONTROLLED	Seed-borne ascochyta blight caused by <i>Ascochyta rabiei</i> Seed rot/pre-emergence damping-off and post-emergence damping-off and seedling blight caused by <i>Fusarium</i> spp., <i>Pythium</i> spp. and <i>Rhizoctonia</i> spp. Seed rot and seedling blight caused by seed-borne <i>Botrytis</i> spp. Seed-borne <i>Sclerotinia sclerotiorum</i>
RATE	325 mL/100 kg seed

12.5 Lentils

CROP	Lentils
DISEASE CONTROLLED	Seed-borne ascochyta blight caused by <i>Ascochyta lentis</i> 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-borne <i>Sclerotinia sclerotiorum</i> Seed rot and seedling blight caused by seed-borne <i>Botrytis</i> spp.
RATE	325 mL/100 kg seed

12.6 Lupins and Faba Beans

CROP	Lupins and Faba Beans
DISEASE CONTROLLED	Control of 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.
RATE	325 mL/100 kg seed

12.7 Tank Mixes

For protection from various insect pests, VIBRANCE MAXX PULSES RTA may be mixed with CRUISER® 5FS Seed Treatment Insecticide. Consult each product label for registered use rates and follow all label use instructions. Read the label directions for each product and follow the most restrictive label precautions and limitations.

13.0 RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, please note that VIBRANCE MAXX PULSES RTA contains Group 1, 4, 7 and 12 fungicides. Any fungal population may contain individuals naturally resistant to VIBRANCE MAXX PULSES RTA and other Group 1, 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 MAXX PULSES RTA or other Group 1, 4, 7 and 12 fungicides with different groups that control the same pathogens.

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 resistance development. Notify Syngenta Canada Inc. if reduced sensitivity of the pathogen to VIBRANCE MAXX PULSES RTA 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.

CRUISER® and VIBRANCE® are trademarks of a Syngenta Group Company.