

GROUP	28	INSECTICIDE
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FORTENZA®

SEED TREATMENT INSECTICIDE

COMMERCIAL

SUSPENSION

Seed treatment insecticide for control of listed insect pests on labeled crops.

ACTIVE INGREDIENT:

Cyantraniliprole 600 g/L

Contains 1,2-benzisothiazolin-3-one at 0.037 % as a preservative.

Contains 2-bromo-2-nitropropane-1,3-diol at 0.024 % as a preservative.

CAUTION – EYE IRRITANT**READ THE LABEL AND BOOKLET BEFORE USING
KEEP OUT OF THE REACH OF CHILDREN**REGISTRATION NO.: **30899**

PEST CONTROL PRODUCTS ACT

NET CONTENTS: **1 L to 1050 L****Syngenta Canada Inc.**

140 Research Lane, Research Park

Guelph, ON N1G 4Z3

Telephone: 1-877-964-3682

Special Use Restrictions

This product contains no colourant. An appropriate colourant must be added when this product is applied. Regulations pertaining to the SEEDS ACT must be strictly adhered to when using this product. Seed must be conspicuously coloured at the time of treatment.

Application to corn, canola, rapeseed and mustard (condiment or oilseed) must be completed by commercial treaters (facilities and mobile treaters) with closed transfer systems only. Closed transfer includes closed mixing, loading, calibrating, and closed treatment equipment only. No open transfer of FORTENZA® is permitted during the commercial treatment of corn, canola, rapeseed or mustard (condiment or oilseed).

In addition to above, for soybeans, on-farm seed treatment and on-farm open transfer of FORTENZA is permitted. Potato seed pieces can be treated on-farm and must use closed transfer systems.

LABEL

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. The user assumes the risk to persons or property that arises from any such use of this product.

FIRST AID

IF POISONING IS SUSPECTED, call a doctor or poison control centre **IMMEDIATELY**. 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 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 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.

TOXICOLOGICAL INFORMATION

There is no specific antidote for this product if ingested. Treat symptomatically.

PRECAUTIONS

Safety Precautions:

1. Hazard to humans and domestic animals.
2. KEEP OUT OF THE REACH OF CHILDREN and domestic animals.
3. Wash hands and face after handling and before eating or smoking.
4. May irritate eyes. Avoid contact with eyes.
5. **When treating potato seed pieces:** Wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks shoes and goggles during mixing, loading, application, clean-up, and repair. When handling or planting treated potato seed pieces or when working with or around equipment used to transport treated potato seed pieces, workers must wear a long-sleeved shirt, long pants, gloves, socks and boots. For good hygiene practice, it is recommended to wear a NIOSH-approved N95 (minimum) filtering facepiece respirator (dust mask) that is properly fit tested during all job activities. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. DO NOT use open

treating equipment when treating potato seed pieces. This product must be applied using a closed treatment system.

6. **When treating corn, crops from Crop Subgroup 20A, *Brassica carinata* or condiment mustard:** This treatment must be applied in a commercial seed treatment facility (or by mobile treaters) using closed transfer, including closed mixing, loading, calibrating, and closed treatment equipment. Workers (treaters, baggers, sewer, stackers, forklift drivers and cleaners) must wear a long-sleeved shirt and long pants, chemical-resistant gloves, socks and shoes. For good hygiene practice, it is recommended to wear a NIOSH-approved N95 (minimum) filtering facepiece respirator (dust mask) that is properly fit tested during all job activities.
7. **When treating soybeans:** This treatment may be applied in a commercial seed treatment facility (or by mobile treaters) or on-farm. Workers (treaters, baggers, sewer, stackers, forklift drivers and cleaners) must wear a long-sleeved shirt and long pants, chemical-resistant gloves, socks and shoes. For good hygiene practice, it is recommended to wear a NIOSH-approved N95 (minimum) filtering facepiece respirator (dust mask) that is properly fit tested during all job activities.
8. Wash personal protective equipment (PPE) after each use. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables are available, use detergent and hot water. Keep and wash PPE separately from other laundry.
9. Avoid contamination of feed and foodstuffs.
10. All bags containing treated seed for sale or use in Canada must be labelled or tagged as follows: **These seeds have been treated with the insecticide cyantraniliprole. When handling and planting treated seed, workers must wear a long sleeved shirt and long pants, chemical-resistant gloves, socks and shoes.** For good hygiene practice, it is recommended to wear a NIOSH-approved N95 (minimum) 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. Toxic to bees. Follow best management practices to help minimize dust exposure to pollinators during planting of treated seed; refer to the complete guidance "Pollinator Protection: reducing risk from treated seed" on the Health Canada website (www.healthcanada.gc.ca/pollinators).**

Environmental Precautions:

TOXIC to aquatic organisms. DO NOT apply this product directly to freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs, ditches and wetlands), estuaries or marine habitats.

To reduce runoff from treated areas into aquatic habitats avoid application to areas with a moderate to steep slope, compacted soil, or clay.

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

The use of this chemical may result in contamination of groundwater particularly in areas where soils are permeable (e.g. sandy soil) and/or the depth to the water table is shallow.

Toxic to bees. This product is systemic and bees can be exposed to product residues in flower, leaves, pollen and/or nectar resulting from seed treatment applications. However, when this product is applied and used according to label directions, risk to bees is expected to be negligible. Follow best management practices to help minimize dust exposure to pollinators

during planting of treated seed; refer to the complete guidance “Pollinator Protection: reducing risk from treated seed” on the Health Canada website (www.healthcanada.gc.ca/pollinators).

If treated seeds are spilled outdoors or in areas accessible to birds, promptly clean up or bury to prevent ingestion.

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 1-877-SYNGENTA / 1-877-964-3682

STORAGE

Ideal storage temperature for the products is above freezing and below 30 °C. Repeated freeze-thawing of FORTENZA 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.

DECONTAMINATION AND DISPOSAL

Dispose of all excess treated seed. Left over treated seed may be double-sown around the headland or buried away from water sources in accordance with local requirements. Dispose of seed packaging in accordance with local requirements. DO NOT re-use bags from treated seed to handle food or feed products.

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.

CONTAINER DISPOSAL:

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 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 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.

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

FORTENZA® is a trademark of a Syngenta Group Company.

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PAMPHLET

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

GENERAL INFORMATION

FORTENZA is an insecticide belonging to the chemical class of diamides. The length of control of the major insect pests will vary depending on the product use rate, insect pressure, crop growth and maturity, and soil and environmental conditions. When rate ranges are given, use the higher rate when insect pressure is expected to be high.

FORTENZA Seed Treatment provides early season reduction of feeding damage from bean leaf beetle and protection from cutworm in soybeans.

DIRECTIONS FOR USE

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.

APPLICATION METHOD:

Shake or mix well before using.

All Seed: Apply FORTENZA 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 insect control. Thoroughly mix the specified amount of FORTENZA into the required amount of water for the slurry treater and dilution rate to be used. Consult the manufacturer of the application equipment you plan to use for suitability for this application and for instructions on operation and calibration of the equipment.

Potatoes:

Cut seed is particularly vulnerable to excess moisture. Too much moisture will induce seed decay. FORTENZA has been designed to be delivered in very low volumes of liquid to ensure good coverage without increasing tuber decay. Do not add excess water to the cut seed.

Store cut seed at or below 7 °C. Temperatures above 10 °C promote soft rot in seed.

Apply only in areas with adequate ventilation or in areas that are equipped to remove mist or dust.

If soil conditions are ideal, plant the treated potatoes immediately after application; however if

soil is predicted to be cold and wet , either a) wait to cut, treat, plant until conditions are favorable or b) cut, treat and store. If cutting, treating and storing, potatoes can be treated with an inert dust to improve wound healing. Store properly until conditions improve by making sure that there is adequate cool air (7-10 °C) movement through the pile of cut seed potatoes and a relative humidity of 85-90%. Cut and treated seed should not be piled above 1.8 m in height. When transporting cut and FORTENZA treated seed make sure the seed is covered.

When treating cut seed, FORTENZA can be followed with a dust/talc treatment to improve suberization.

Avoid using liquid seed treatment on excessively sprouted seed.

Note: Treatment of highly damaged or bruised potato seed, or seed known to be of low vigor and poor quality, or potato seed that is deemed “physiologically old” may result in reduced germination and/or reduction of seed and seedling vigor and multiple stems from germination of the seed. When in doubt or if the status/condition of the potato seed tubers is unknown, then treat a small sample batch of the same potato seed load with FORTENZA using recommended rates, equipment and application procedures; before treating the total seed lot. Conduct this test on a small batch of the potato seed and observe the germination, emergence, stem count from the germinating seed. Only if the data confirms that the seed treated with FORTENZA is acceptable then proceed treating the rest of the seed load from which the sample was taken. Due to seed quality, seed condition and seed storage conditions beyond the control of Syngenta no claims are made to guarantee the germination and or performance of the potato seed tuber from treatment with FORTENZA.

Soybean, Corn, Crop Subgroup 20A, *Brassica carinata* and Condiment Mustard: This product contains no pigment. Users are responsible for ensuring that the treated seed, when dried and ready for bagging, has an unnatural colour. Regulations pertaining to colouration of treated seed enforced under the “Seeds Act” must be strictly adhered to when using this product.

Note: Treatment of highly mechanically scarred or damaged seed, or seed known to be of low vigor and poor quality may result in reduced germination and/or reduction of seed and seedling vigor. Treat 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 seed.**

USE DIRECTIONS

POTATO	
CROP	Potato
PEST ¹	Colorado potato beetle
RATE	10 – 22.5 mL/100 kg seed
APPLICATION METHOD	Potato seed piece treatment
NOTES	¹ Protection provided during early to mid-season growth and development of potatoes only.
RESTRICTIONS	Do not apply any subsequent application of a Group 28 Insecticide (for example, in-furrow, soil or foliar application) following FORTENZA seed treatment.

CORN	
CROP	Corn, field, pop and sweet
PEST	Cutworm
RATE	0.125 - 0.25 mg ai/seed (50 - 100 g ai/100 kg seed or 83 - 167 mL/100 kg seed)
APPLICATION METHOD	Seed treatment
NOTES	For additional insect control, FORTENZA can be tank mixed with CRUISER® 5FS Seed Treatment Insecticide in commercial seed treatment facilities with closed transfer including closed mixing, loading, calibrating, and closed treatment equipment only. For disease control, FORTENZA can be tank mixed with APRON XL® LS, MAXIM® XL, DYNASTY® 100FS, MAXIM QUATTRO Seed Treatments and/or VIBRANCE® 500FS in commercial seed treatment facilities. Read the label directions for each product and follow the most restrictive label precautions and limitations.
RESTRICTIONS	This product contains no colourant. An appropriate colourant must be added when this product is applied. Do not apply any subsequent application of a Group 28 Insecticide (for example, in-furrow, soil or foliar application) following FORTENZA seed treatment.
CROP	Corn, field, pop and sweet
PEST	Wireworms, European Chafer and suppression of seedcorn maggot
RATE	0.25 mg ai/seed (100 g ai/100 kg seed or 167 mL/100 kg seed)
APPLICATION METHOD	Seed treatment
NOTES	For additional insect control, FORTENZA can be tank mixed with CRUISER 5FS Seed Treatment Insecticide in commercial seed treatment facilities with closed transfer including closed mixing, loading, calibrating, and closed treatment equipment only. For disease control, FORTENZA can be tank mixed with APRON XL LS, MAXIM XL, DYNASTY 100FS, MAXIM QUATTRO Seed Treatments and/or VIBRANCE 500FS in commercial seed treatment facilities. Read the label directions for each product and follow the most restrictive label precautions and limitations.
RESTRICTIONS	This product contains no colourant. An appropriate colourant must be added when this product is applied. Do not apply any subsequent application of a Group 28 Insecticide (for example, in-furrow, soil or foliar application) following FORTENZA seed treatment.

OILSEEDS	
CROP	Canola, mustard seed, rapeseed, Oilseed mustard, including <i>B. carinata</i>
PEST	Cutworm
RATE	500 mL/100 kg seed (300 g ai/100 kg seed)
APPLICATION METHOD	Seed treatment
NOTES	For additional insect and disease control, FORTENZA can be tank mixed with HELIX XTRA® Seed Treatment and/or VIBRANCE 500FS Seed Treatment in commercial seed treatment facilities. Read the label directions for each product and follow the most restrictive label precautions and limitations.
RESTRICTIONS	<p>This product contains no colourant. An appropriate colourant must be added when this product is applied.</p> <p>Do not apply any subsequent application of a Group 28 Insecticide (for example, in-furrow, soil or foliar application) following FORTENZA seed treatment.</p>
CROP	Canola, mustard seed, rapeseed, Oilseed mustard, including <i>B. carinata</i>
PEST	Flea beetles
RATE	1333 mL/100 kg seed (800 g ai/100 kg seed)
APPLICATION METHOD	Seed treatment
RESTRICTIONS	<p>This product contains no colourant. An appropriate colourant must be added when this product is applied.</p> <p>Do not apply any subsequent application of a Group 28 Insecticide (for example, in-furrow, soil or foliar application) following FORTENZA seed treatment.</p>

CONDIMENT MUSTARD	
CROP	Condiment mustard
PEST	Cutworm
RATE	500 mL/100 kg seed (300 g ai/100 kg seed)
APPLICATION METHOD	Seed treatment
NOTES	For additional insect and disease control, FORTENZA can be tank mixed with HELIX XTRA Seed Treatment and/or VIBRANCE 500FS Seed Treatment in commercial seed treatment facilities. Read the label directions for each product and follow the most restrictive label precautions and limitations.
RESTRICTIONS	<p>This product contains no colourant. An appropriate colourant must be added when this product is applied.</p> <p>Do not apply any subsequent application of a Group 28 Insecticide (for example, in-furrow, soil or foliar application) following FORTENZA seed treatment.</p>
CROP	Condiment mustard
PEST	Flea beetles
RATE	1333 mL/100 kg seed (800 g ai/100 kg seed)
APPLICATION METHOD	Seed treatment
RESTRICTIONS	<p>This product contains no colourant. An appropriate colourant must be added when this product is applied.</p> <p>Do not apply any subsequent application of a Group 28 Insecticide (for example, in-furrow, soil or foliar application) following FORTENZA seed treatment.</p>

SOYBEANS	
CROP	Soybeans
PEST	Seed corn maggot, European chafer, June beetle and Black cutworm
RATE	41.5 - 83 mL/100 kg seed (25 - 50 g ai/100 kg seed) This rate is equivalent to 0.0628 – 0.1256 µL/seed (0.0378 – 0.0757 mg ai/seed), based on a seed weight of 6600 seeds/kg.
APPLICATION METHOD	Seed treatment
NOTES	Use higher rates for higher pest pressure. FORTENZA may be mixed with APRON XL® LS, MAXIM® 480FS, DYNASTY® 100FS, APRON MAXX® RTA® or APRON MAXX RFC, VIBRANCE® 500FS and VIBRANCE MAXX RFC to control a broad spectrum of diseases. For protection from various insect pests, FORTENZA may be mixed with CRUISER® 5FS. For combined protection from labeled insect and soil- and seed-borne pathogens, FORTENZA may be mixed with CRUISER MAXX® Beans and VIBRANCE 500 FS. For protection from soybean cyst nematodes, FORTENZA may be mixed with CLARIVA™ pn. Follow all appropriate treating and use directions, precautions, etc. as specified on the respective product labels.
RESTRICTIONS	This product contains no colourant. An appropriate colourant must be added when this product is applied. Do not apply any subsequent application of a Group 28 Insecticide (for example, in-furrow, soil or foliar application) following FORTENZA seed treatment.
CROP	Soybeans
PEST	Wireworms, Bean leaf beetle*
RATE	83 mL/100 kg seed (50 g ai/100 kg seed) This rate is equivalent to 0.1256 µL/seed (0.0757 mg ai/seed), based on a seed weight of 6600 seeds/kg.
APPLICATION METHOD	Seed treatment
NOTES	FORTENZA may be mixed with APRON XL LS, MAXIM 480FS, DYNASTY 100FS, APRON MAXX RTA or APRON MAXX RFC, VIBRANCE 500FS and VIBRANCE MAXX RFC to control a broad spectrum of diseases. For protection from various insect pests, FORTENZA may be mixed with CRUISER 5FS. For combined protection from labeled insect and soil- and seed-borne pathogens, FORTENZA may be mixed with CRUISER MAXX Beans and VIBRANCE 500 FS. For protection from soybean cyst nematodes, FORTENZA may be mixed with CLARIVA pn. Follow all appropriate treating and use directions, precautions, etc. as specified on the respective product labels.
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* Use for early season feeding damage of bean leaf beetle.

When applied as a tank-mix combination, read and observe all label directions, including rates, personal protective equipment, restrictions and precautions for each product used in the tank-mix. Always use in accordance with the most restrictive label restrictions and precautions.

Rotational Restrictions

ROTATIONAL CROP RESTRICTIONS

Plant back interval	Crops
0 days	Crop Subgroup 1B (Root Vegetables, except sugar beet); Crop Subgroup 1C (Tuberous and Corm Vegetables); Crop Group 2 (Leaves of Root and Tuber Vegetables); Crop Group 3-07 (Bulb Vegetables); Crop Group 4 (Leafy Vegetables, except <i>Brassica</i> vegetables); Crop Group 5 (<i>Brassica</i> (Cole) Leafy Vegetables); Crop Group 6 (Legume Vegetables, Succulent or Dried); Crop Group 7 (Foliage of legume vegetables); Crop Group 8-09 (Fruiting Vegetables); Crop Group 9 (Cucurbit Vegetables); Crop Subgroup 13-07A (Canneberries); Crop Subgroup 13-07B (Bushberries); Crop Subgroup 13-07H (Low Growing Berries, except Strawberries); Crop Group 20 (Oilseeds); peanuts; strawberries
30 days	Crop Group 1A (Root and Tuber Vegetables); Crop Group 15 (Cereal grains); Crop Group 16 (Forage, fodder, and straw of cereal grains); Crop Group 17 (Grass forage, fodder, and hay); Crop Group 18 (Nongrass animal feeds: Forage, fodder, straw and hay)
365 days	Other crops

Resistance-Management Recommendations

For resistance management, please note that FORTENZA contains a Group 28 insecticide (cyantraniliprole, belonging to the diamide class of chemistry). Any insect population may contain individuals naturally resistant to FORTENZA and other Group 28 insecticides. The resistant individuals may dominate the insect population if this group of insecticides is used repeatedly in the same field. Other resistance mechanisms that are not linked to site of action but are specific for individual chemicals, such as enhanced metabolism, may also exist. Because resistance development cannot be predicted, the use of this product should conform to sound resistance management strategies established for the crop and use area.

To delay insecticide resistance:

Where possible, rotate the use of FORTENZA or other Group 28 insecticides with different groups that control the same pests in a field.

Use tank mixtures with miticides/insecticides from a different group when such use is permitted.

Insecticide use should be based on an IPM program that includes scouting, record keeping, and considers cultural, biological and other chemical control practices.

Monitor treated pest populations for resistance development. If resistance is suspected, do not reapply FORTENZA or other Group 28 insecticides.

Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for the specific site and pest problems in your area.

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

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