

GROUP	28	INSECTICIDE
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CURANZA™

SEED TREATMENT INSECTICIDE

COMMERCIAL

SUSPENSION

Seed treatment insecticide for control of cutworm and flea beetle on listed oilseed crops

ACTIVE INGREDIENT:

Cyantraniliprole 600 g/L

Contains 1,2-benzisothiazolin-3-one at 0.037 % OR 5-chloro-2-methyl-4-isothiazolin-3-one at 0.0006% and 2-methyl-4-isothiazolin-3-one at 0.00019% AND 2-bromo-2-nitropropane-1,3-diol at 0.024 % as preservatives.

CAUTION – EYE IRRITANT

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

REGISTRATION NO.: **35778**
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.

No open transfer of CURANZA™ is permitted during the commercial treatment of canola, rapeseed or mustard (condiment or oilseed).

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 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.

3.0 TOXICOLOGICAL INFORMATION

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

4.0 PRECAUTIONS

KEEP OUT OF THE REACH OF CHILDREN AND DOMESTIC ANIMALS.

Hazard to humans and domestic animals. May irritate eyes. Avoid contact with eyes.

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)

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.

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.

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.

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).

6.0 ENVIRONMENTAL PRECAUTIONS

Toxic to aquatic organisms.

Toxic to bees. This product is systemic and bees can be exposed to product residues in flowers, 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 on treated seed; refer to the complete guidance "Pollinator Protection: reducing risk from treated seed" on the Health Canada webpage (www.canada.ca/pollinators).

Any spilled or exposed seeds and dust must be incorporated into the soil or 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.

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

Avoid application when heavy rain is forecast.

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. 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, 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. Any spilled or exposed seeds and dust must be incorporated into the soil or cleaned up from the soil surface. 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.canada.ca/pollinators).”**

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 for the products is above freezing and below 30 °C. Repeated freeze-thawing of CURANZA 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 or territorial regulatory agency. Contact the manufacturer and the provincial or territorial regulatory agency in case of a spill, and for clean-up of spills.

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:

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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 treatment 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 or territorial requirements.

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

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PAMPHLET

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10.0 PRODUCT INFORMATION

CURANZA 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.

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.

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.

CURANZA is a seed treatment formulation for use in commercial seed treatment (in facilities or with mobile treaters) Uneven seed coverage may not give the desired level of pest control.

Thoroughly mix the recommended amount of CURANZA 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.

Depending on planting equipment, seed treated with CURANZA, or a combination of CURANZA 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.

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.

This product contains no colourant. An appropriate colourant must be added when this product is applied. Users are responsible for ensuring that the treated seed, when dried and ready for bagging, has an unnatural colour. Regulations pertaining to the “Seeds Act” must be strictly adhered to when using this product.

11.2 Rotational Restrictions

CROP	Plant Back Interval
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 (Caneberries); Crop Subgroup 13-07B (Bushberries); Crop Subgroup 13-07H (Low Growing Berries, except Strawberries); Crop Group 15 (Cereal grains); Crop Group 20 (Oilseeds); peanuts; strawberries	0 days
Sugar beet; 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)	30 days
Other Crops	365 days

12.0 CROP USE DIRECTIONS

12.1 Oilseeds

OILSEEDS		
CROP	Canola Mustard (Seed, oilseed, and condiment types)	Rapeseed Abyssinian mustard (<i>Brassica carinata</i>)
PEST	Cutworms	
RATE	500 mL/100 kg seed (300 g ai/100 kg seed) This rate is equivalent to 15 µg/seed (3 g ai/kg) based on a seed weight of 200,000 seeds/kg (5 g/1000 seeds).	
PEST	Flea beetles	
RATE	1333 mL/100 kg seed (800 g ai/100 kg seed) This rate is equivalent to 40 µg/seed (8 g ai/kg) based on a seed weight of 200,000 seeds/kg (5 g /1000 seeds).	
APPLICATION METHOD	Seed treatment	
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 CURANZA seed treatment.	

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, please note that CURANZA contains a Group 28 insecticide (cyantraniliprole, belonging to the diamide class of chemistry). Any insect population may contain individuals naturally resistant to CURANZA 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 CURANZA or other Group 28 insecticides with different groups that control the same pests.

Use tank mixtures with miticides/insecticides from a different group that is effective on the target pest when such use is permitted.

Insecticide use should be based on an IPM program that includes scouting and 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 CURANZA or other Group 28 insecticides. Notify Syngenta Canada Inc. if reduced sensitivity of the pest to CURANZA is suspected.

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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