

GROUP	3	4	12	FUNGICIDES
GROUP		4		INSECTICIDE

## HELIX XTra® Colourless Seed Treatment

INSECTICIDE AND FUNGICIDES

SUSPENSION

AGRICULTURAL

HELIX XTra Colourless Seed Treatment is a liquid seed treatment for use on canola and mustard for the early season control of flea beetles, seed-borne blackleg, seed-borne *Alternaria* and the seedling disease complex (damping-off, seedling blight, seed rot and root rot) caused by *Pythium* spp., *Fusarium* spp. and *Rhizoctonia* spp. This product is for use in areas with high flea beetle pressure where extended early season control is required.

### GUARANTEE:

Thiamethoxam .....	20.70%
Difenoconazole .....	1.25%
Metalaxyl-M and S-isomer .....	0.39%
Fludioxonil .....	0.13%

Contains 1,2-benzisothiazolin-3-one at 0.012 % as a preservative.

**READ THE LABEL AND BROCHURE BEFORE USING**  
**KEEP OUT OF THE REACH OF CHILDREN AND PREVENT ACCESS BY UNAUTHORIZED**



CAUTION

POISON

REGISTRATION NUMBER: **27307**  
PEST CONTROL PRODUCTS ACT  
NET CONTENTS: **105 L - 1050 L, Bulk**

### Syngenta Canada Inc.

140 Research Lane, Research Park  
Guelph, Ontario N1G 4Z3  
Telephone: 1-877-964-3682

**For use in commercial seed treatment facilities with closed transfer systems only. No open transfer of HELIX XTra Colourless Seed Treatment. All seed treated with this product must be conspicuously coloured at the time of treatment.**

**This product is for use in areas with high flea beetle pressure where extended early season control is required.**

**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. A blue colourant must be added when this product is applied to oilseed.**

## 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, 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 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 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.

**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.

## TOXICOLOGICAL INFORMATION

NOTE TO PHYSICIAN: There is no specific antidote for this product if ingested. If ingested, induce emesis or lavage stomach. Treat symptomatically.

## PRECAUTIONS

### **Safety Precautions:**

1. **KEEP OUT OF THE REACH OF CHILDREN and DOMESTIC ANIMALS AND PREVENT ACCESS BY UNAUTHORIZED PERSONNEL.** Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke during handling. At the beginning of breaks, remove protective clothing. At the end of work shifts, remove protective clothing and wash thoroughly.
2. Avoid inhalation of vapours, spray mist or treated seed dust. Wash hands and face after handling and before eating, smoking, drinking or using the toilet.
3. Store the product in a well ventilated, secure area. Avoid contamination of feed and foodstuffs.
4. Clean up spilled material, equipment and work area as soon as possible after use.
5. Do not apply in a way that this product will contact workers or other persons, either directly or through drift. Only handlers (mixers, loaders and applicators) wearing personal protective equipment may be in the area during application.
6. Treat seed in a well-ventilated area. Workers involved in treating, clean-up, repair or

maintenance of seed treatment equipment must wear chemical-resistant coveralls over long sleeve shirt and long pants, gauntlet-style chemical-resistant gloves, head gear, and respiratory protection (i.e., half-mask respirator with suitable dust filter or fresh air hood). Baggers, sewers and stackers must wear coveralls over long sleeve shirt and long pants, chemical-resistant gloves, head gear and respiratory protection (i.e., single use dust mask, quarter- or half-mask respirator, fresh air hood). Forklift operators must wear coveralls over long sleeve shirt and long pants and chemical resistant gloves.

7. Wear a suitable dust mask when bagging, or sewing bags of treated seed or when transferring seed to a storage bin.
8. Minimize the use of compressed air for cleaning. This practice has been shown to increase worker exposure. Do not enter enclosed equipment spaces, such as dryers and grain bins, carrying compressed air guns for the purpose of cleaning. Clean equipment with scrapers, brushes, brooms or vacuums. Do not use compressed air to clean floors. Use procedures and equipment that minimize dust generation, such as use of a vacuum with a suitable filter or external exhaust, use of a cleaning compound to suppress dust when sweeping, etc.

#### **Environmental Precautions:**

1. 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.
2. Do not contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.
3. If treated seed is spilled outdoors, promptly clean up.

NOTE: In case of accident, take the product label or a copy of the MSDS to the emergency facility or physician.

#### **Use Restrictions:**

1. Treated seed must not be used for food, feed or oil processing.
2. Not for use in hopper-box, planter-box, slurry-box or other non-commercial seed treatment applications (e.g. on-farm treaters). DO NOT APPLY BY AIR.
3. All bags containing treated seed for sale or use in Canada must be labeled or tagged as follows: **"This seed has been treated with HELIX XTra Colourless Seed Treatment which contains the insecticide (thiamethoxam) and the fungicides (difenoconazole, metalaxyl-M and S-isomer and fludioxonil). Wear long-sleeve shirt, long pants, and chemical-resistant gloves when handling treated seed. Do not use for food, feed or oil processing. Store away from food and feed."**

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit CropLife Canada's website at [www.croplife.ca](http://www.croplife.ca).

#### **DISPOSAL OF UNUSED, UNWANTED PRODUCT**

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.

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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 mixture in the tank.
2. Make the empty, rinsed container unsuitable for future use.

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

Product names marked ® or ™ are trademarks of a Syngenta Group Company

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3. All bags containing treated seed for sale or use in Canada must be labeled or tagged as follows: **"This seed has been treated with HELIX XTra Colourless Seed Treatment which contains the insecticide (thiamethoxam) and the fungicides (difenoconazole, metalaxyl-M and S-isomer and fludioxonil). Wear long-sleeve shirt, long pants, and chemical-resistant gloves when handling treated seed. Do not use for food, feed or oil processing. Store away from food and feed."**

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

**GENERAL INFORMATION**

HELIX XTra Colourless Seed Treatment is a ready to use liquid seed treatment for canola and mustard. HELIX XTra Colourless Seed Treatment contains an insecticide (thiamethoxam) and three fungicides (difenoconazole, metalaxyl-M and S-isomer, and fludioxonil). The insecticide component of HELIX XTra Colourless Seed Treatment provides early season control of flea beetles for 28 – 35 days. This product is for use in areas with high flea beetle pressure where extended early season control is required. The fungicide component of HELIX XTra Colourless Seed Treatment provides early season control of seed-borne blackleg (*Leptosphaeria maculans*), seed-borne *Alternaria* (*Alternaria* spp.), and the seedling disease complex (damping-off, seedling blight, seed rot and root rot) caused by *Pythium* spp., *Fusarium* spp. and *Rhizoctonia* spp.

**Integrated Pest Management:**

Control of Diseases and (or) Flea Beetles can be reduced significantly if:

- Canola is seeded into the same field more than once every three years.
- Seeding depths are excessive (>4 cm).
- Emerging seedlings are subjected to poor growing conditions.
- Canola is planted into fields with reduced tillage practices.

Canola fields should be monitored on a regular basis after emergence. Flea beetles often migrate from field edges inward. Field scouting will determine if a foliar insecticide application is warranted and whether it will be required over the entire field or on the headlands only.

Foliar insecticide application should be considered if:

- Flea beetle damage has reached or is approaching the economic threshold of 25% leaf area damage on the cotyledons or first true leaves.



- Canola stubble or a canola field is adjacent to emerging canola fields.
- Flea beetle populations in previous years have been observed to be high and the level of pressure sustained. Foliar insecticide applications should be made immediately if:
- Stem feeding is observed. This may occur under cool and windy conditions.

## DIRECTIONS FOR USE

Apply 1.5 L/100 kg seed of HELIX XTra Colourless Seed Treatment using standard commercial seed treatment equipment which provides uniform seed coverage. Uneven or incomplete seed coverage may not give the desired level of insect or disease control. Consult the manufacturer of the seed treating equipment for advice on the operation and calibration of the equipment. Maintain constant product agitation during the seed treatment process. Allow the seed to dry before bagging.

For additional disease control in canola, HELIX XTra Colourless Seed Treatment may be mixed with DYNASTY® 100FS Fungicide in commercial seed treatment facilities with closed transfer including closed mixing, loading, calibrating and closed treatment equipments only. Follow all appropriate directions, precautions, etc. as specified on product labels.

**This product does not contain a colourant. A suitable colourant (baby blue for rapeseed/canola, oilseed mustard) must be added prior to application to the seed. Follow instructions on the colorant package for mixing. Regulations pertaining to colouration of treated seed enforced under the “Seed Act” must be strictly adhered to when using this product. Users are responsible for ensuring that the treated seed, when dried and ready for bagging, has an unnatural colour.**

Crops	Insect Controlled	Diseases Controlled	Rate (L / 100 kg seed)
Canola Mustard	Flea beetles	Seed-borne Blackleg ( <i>Leptosphaeria maculans</i> ) Seed-borne <i>Alternaria</i> ( <i>Alternaria</i> spp.) Seedling disease complex (damping-off, and seedling blight, seed rot and root rot) <i>Pythium</i> spp. <i>Fusarium</i> spp. <i>Rhizoctonia</i> spp.	1.5

**NOTE TO USER: READ THE FOLLOWING BEFORE USING THIS PRODUCT FOR THE INDICATED SPECIAL USE APPLICATIONS:**

The DIRECTIONS FOR USE for this product for the uses described below were developed by persons other than Syngenta Canada, Inc. and accepted for registration by Health Canada under the User Requested Minor Use Label Expansion program. Syngenta Canada, Inc. itself makes no representation or warranty with respect to performance (efficacy) and/or crop tolerance (phytotoxicity) claims for this product when used on the crops listed below. Accordingly, the User assume all risks related to performance and crop tolerance arising, and agree to hold Syngenta Canada, Inc. harmless, from any claims based on efficacy and/or phytotoxicity in connection with the uses described below.

Crop	Insect Controlled	Diseases Controlled	Rate (L/100 kg seed)	Notes
Oriental Mustard (oilseed types)	Flea beetles	Seed-borne Blackleg ( <i>Leptosphaeria maculans</i> ) Seed-borne Alternaria ( <i>Alternaria</i> spp.) Seedling disease complex (damping-off, seedling blight, seed rot, and root rot) <i>Pythium</i> spp. <i>Fusarium</i> spp. <i>Rhizoctonia</i> spp.	1.5	One application as a seed treatment

**Note:**

**Seed Storage:**

Lab and field studies have shown that HELIXXTra Colourless Seed Treatment treated canola and mustard seed can be safely stored for 18 months without loss in germination or insect and disease performance. However, 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 or propagating material for all crop seed.

Treatment of highly mechanically scarred or damaged seed, or seed known to be of low vigour and poor quality, may result in reduced germination and/or reduction of seed and seedling vigour. Treating such seed with HELIXXTra Colourless Seed Treatment should only be done for curative control of existing disease pests. 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 seed before committing the total seed lot to a selected seed treatment.

**Seeding Equipment:**

Depending on the seeding equipment used, seed treated with HELIX XTra Colourless Seed Treatment may not flow through the equipment at the same rate as untreated seed or seed treated with other canola seed treatment products. Re-calibration of seeding equipment is recommended before planting seed treated with HELIX XTra Colourless Seed Treatment.

## Resistance Management Recommendations

For resistance management, Helix XTra Colourless Seed Treatment contains a Group 4 insecticide and Group 3, 4 and 12 fungicides. Any insect or fungal population may contain individuals naturally resistant to Helix XTra Colourless Seed Treatment and other Group 4 insecticides or Group 3, 4 and 12 fungicides. A gradual or total loss of pest control may occur over time if these insecticides and fungicides are used repeatedly in the same fields. Other resistance mechanisms that are not linked to site of action but are specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

### To delay insecticide and fungicide resistance:

Where possible, rotate the use of Helix XTra Colourless Seed Treatment or other Group 4 insecticides and Groups 3, 4 and 12 fungicides with different groups that control the same insects or pathogens.

Insecticide and fungicide use should be based on an IPM program that includes scouting, historical information related to pesticide use and crop rotation and considers cultural, biological and other chemical control practices.

Monitor treated insect and fungal populations for resistance development.

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

For further information and to report suspected resistance, contact Syngenta Canada, Inc. company representatives at 1-877-SYNGENTA (1-877-964-3682) or at [www.syngenta.ca](http://www.syngenta.ca).

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