



**** BASE CONTAINER LABEL****

INTEGO® Master Fungicide

COMMERCIAL SUSPENSION

ACTIVE INGREDIENT : Ethaboxam.....383 g/L

Contains 5-chloro-2-methyl-4-isothiazolin-3-one at 0.0006 % or 0.0017% or 0.0011% and 2-methyl-4-isothiazolin-3-one at 0.0006% or 0.0004% or 0.0002 % as a preservative

Or

Contains 1,2-benzisothiazolin-3-one at 0.019 % or at 0.046 % as a preservative

REGISTRATION NUMBER: 34896 PEST CONTROL PRODUCTS ACT

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

NET CONTENTS: 50 ml to 1,020 L

HEALTH EMERGENCY OR SPILL (24 hr):
(800) 682-5368

TRANSPORTATION (24 hr.): CHEMTREC
(800) 424-9300 or (202) 483-7616

GROWER INFORMATION:

Valent Canada, Inc.
201-230 Hanlon Creek Blvd., Guelph, Ontario, N1C 0A1
Contact Phone Number: (519) 767-9262
www.valent.ca

FIRST AID:

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 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.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

Follow mixer/loader and applicator scenario on attached label.

STORAGE:

Store this product away from food or feed.

Store in a cool place. Do not store in direct sunlight. Protect from freezing temperatures.

DISPOSAL:**RECYCLABLE CONTAINER:**

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.

RETURNABLE CONTAINER:

DO NOT reuse this container for any purpose. For disposal, this empty container may be returned to the point of purchase (distributor/dealer).

REFILLABLE CONTAINER:

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.

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.

INTEGO is a registered trademark of Valent U.S.A. LLC



** BOOKLET**

GROUP	22	FUNGICIDE
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INTEGO® Master Fungicide

COMMERCIAL

SUSPENSION

INTEGO Master Fungicide is a seed treatment product providing systemic fungicide protection against certain seed and seedling diseases on labelled crops.

ACTIVE INGREDIENT : Ethaboxam.....383 g/L

Contains 5-chloro-2-methyl-4-isothiazolin-3-one at 0.0006 % or 0.0017% or 0.0011% and 2-methyl-4-isothiazolin-3-one at 0.0006% or 0.0004% or 0.0002 % as a preservative

Or

Contains 1,2-benzisothiazolin-3-one at 0.019 % or at 0.046 % as a preservative

REGISTRATION NUMBER: 34896 PEST CONTROL PRODUCTS ACT

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

For use with closed transfer commercial seed treaters (facilities and mobile treaters). Closed transfer includes closed mixing, loading, calibrating and closed treatment equipment. Also for use in on-farm treatment of Crop Group 15: Cereal Grains (except corn, rice, sorghum and wild rice) and Crop Group 6: Legume Vegetables (succulent or dried) only with open or closed transfer equipment.

NET CONTENTS: 50 ml to 1,020 L

This product contains no colourant. An appropriate colourant must be added when the product is applied to seed, according to regulations pertaining to the “Seeds Act”. A baby blue colourant must be added when this product is applied to canola/rapeseed. A red colourant must be added when product is applied to grain seed.

HEALTH EMERGENCY OR SPILL (24 hr): (800) 682-5368

TRANSPORTATION (24 hr.): CHEMTREC (800) 424-9300 or (202) 483-7616

GROWER INFORMATION:

Valent Canada, Inc.

201-230 Hanlon Creek Blvd., Guelph, Ontario, N1C 0A1

Contact Phone Number: (519) 767-9262

www.valent.ca

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.

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.

FIRST AID:

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 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.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

TOXICOLOGICAL INFORMATION:

No specific antidote is available. Treat the patient symptomatically.

PRECAUTIONS:

Keep treated seeds out of reach of children and animals.

KEEP OUT OF REACH OF CHILDREN. Wash hands thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

User Safety Recommendations:

User should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product.
- Wash the outside of gloves before removing.
- As soon as possible, wash thoroughly and change into clean clothing.

Apply only in a way that this product will not contact workers or other persons, either directly or through drift.

Follow the personal protective equipment and restriction requirements for the appropriate task and scenario:

Seed Type	Tasks	PPE/ Engineering Controls
For Commercial Seed Treatment (including facility workers and mobile treaters)		

<i>All seed types on the label</i>	Treating	Closed transfer only. Closed transfer includes closed mixing, loading, calibrating and closed treatment. No open transfer is permitted. Wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes or boots during mixing, loading, treating, calibrating, bagging, sewing seed bags, stacking and any other activities involving handling treated seeds.
	Cleaning and repairing	Wear chemical-resistant coveralls a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes or boots during clean-up, maintenance and repair.
For On-Farm Seed Treatment		
Crop Group 15: Cereal Grains (except rice, sorghum and wild rice), and Crop Group 6: Legume Vegetables (succulent or dried)	Treating	Open or closed transfer.
	Cleaning and repairing	Wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes or boots during mixing, loading, treating, calibrating, clean-up, repair and any other activities involving handling treated seeds.
For Planting and Handling Treated Seed		
<i>All seed types on the label</i>	Planting	Wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves socks and shoes during planting and handling of treated seeds. A closed cab tractor is required when planting treated seed. Gloves are not required within the closed cab.

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.

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.

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., contact Valent Canada, Inc

ENVIRONMENTAL PRECAUTIONS:

Toxic to aquatic organisms.

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.

USE RESTRICTIONS:

- Do not use treated seed for food, feed, or oil processing.

- Due to seed quality conditions beyond the control of Valent Canada, Inc., no claims are made to guarantee germination of carry-over seed.
- For use with closed transfer commercial seed treaters (facilities and mobile treaters). Closed transfer includes closed mixing, loading, calibrating and closed treatment equipment.
- For use in on-farm treatment of Crop Group 15: Cereal Grains (except corn, rice, sorghum and wild rice) and Crop Group 6: Legume Vegetables (succulent or dried) only with open or closed transfer equipment.

LABELLING OF TREATED SEED:

All bags, containers or packages containing treated seed for sale or use in Canada must be labeled or tagged as follows:

- This seed was treated with a product containing the active ingredient ethaboxam.
- Do not use treated seed for feed, food or oil processing.
- Store this product away from food or feed.
- Wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during planting and handling of treated seeds.
- A closed cab tractor is required when planting treated seed. Gloves are not required within the closed cab.
- This product is toxic to aquatic organisms.
- 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.
- 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.

STORAGE:

Store this product away from food or feed.

Store in a cool place. Do not store in direct sunlight. Protect from freezing temperatures.

DISPOSAL:

RECYCLABLE CONTAINER:

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.

RETURNABLE CONTAINER:

DO NOT reuse this container for any purpose. For disposal, this empty container may be returned to the point of purchase (distributor/dealer).

REFILLABLE CONTAINER:

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.

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.

MODE OF ACTION:

INTEGO Master Fungicide contains ethaboxam, which is a Group 22 fungicide as classified by the Fungicide Resistance Action Committee (FRAC). Its mode of action is the inhibition of cell division.

GENERAL INFORMATION:

INTEGO Master Fungicide is a systemic fungicide seed protection product for use on listed crops. The active ingredient, ethaboxam, provides protection against the Oomycete class of water moulds. *INTEGO Master* Fungicide controls seed rot/pre-emergence damping-off caused by *Pythium* spp., early-season root rot caused by *Phytophthora sojae* and seed-borne downy mildew caused by *Plasmopara halstedii*; and suppresses early-season root rot caused by *Aphanomyces euteiches* and *Aphanomyces cochlioides*. For best results, use *INTEGO Master* Fungicide combined with other Oomycete-active seed treatment fungicides, such as metalaxyl, to broaden the spectrum of activity. It is also recommended that *INTEGO Master* Fungicide be used in combination with a broad-spectrum registered seed treatment fungicide having activity against *Rhizoctonia solani* and other fungal pathogens inciting seed and seedling disease. Fungicide combinations applied to seed offer a wider spectrum of activity against seed and seedling diseases impacting plant stand establishment and seedling health.

DIRECTIONS FOR USE:

INTEGO Master Fungicide product contains no colourant. An appropriate colourant must be added when this product is applied according to regulations pertaining to the "Seeds Act". A baby blue colourant must be added when this product is applied to canola/rapeseed. A red colourant must be added when this product is applied to grain.

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

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 Valent Canada, Inc. at (519) 767-9262 for information before applying any tank mix that is not specifically recommended on this label.

Calibrate seed treatment equipment prior to application of *INTEGO Master* Fungicide to assure proper application rate is achieved. Consult with the seed treatment equipment manufacturer for guidance on

the operation and proper calibration of the treating equipment, as non-uniform, inaccurate seed coverage may result in suboptimal insect or disease protection.

RECOMMENDED APPLICATION

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Diseases Controlled	Application Rate (mL/100 kg seed)
Seed rot/pre-emergence damping-off (<i>Pythium</i> spp.)	13 – 19.6 (5-7.5 g ai/100 kg seed)
Crop Group 15: Cereal Grains (except rice, sorghum and wild rice)	
Barley; buckwheat; millet, pearl; millet, proso; oats; rye; teosinte; triticale; wheat	
Diseases Controlled	Application Rate (mL/100 kg seed)
Seed rot/pre-emergence damping-off (<i>Pythium</i> spp.)	13 – 19.6 (5-7.5 g ai/100 kg seed)
	To deliver 5 g ai/100 kg seed, apply 0.44 mL per 100,000 seed (equals 0.0017 mg ai/seed) based on 28,634 seed/kg (13,000 seed/lb) count
Corn (sweet and field); popcorn	
Seed rot/pre-emergence damping-off caused by <i>Pythium</i> spp.	13 – 19.6 (5-7.5 g ai/100 kg seed)
	Field Corn: To deliver 5 g ai/100 kg seed, apply 3 mL per 80,000 seed (equals 0.0141 mg ai/seed) based on 3524 seed/kg (1600 seed/lb) count
	Sweet Corn: To deliver 5 g ai/100 kg seed, apply 2 mL per 100,000 seed (equals 0.0072 mg ai/seed) based on 6938 seed/kg (3150 seed/lb) count
	Popcorn: To deliver 5 g ai/100 kg seed, apply 2 mL per 100,000 seed (equals 0.0074 mg ai/seed) based on 6742 seed/kg (3061 seed/lb) count
Crop Group 6: Legume Vegetables (succulent or dried)	
Bean (<i>Lupinus</i> spp.) (includes grain lupin, sweet lupin, white lupin, and white sweet lupin); Bean (<i>Phaseolus</i> spp.) (includes field bean, kidney bean, lima bean, navy bean, pinto bean, runner bean, snap bean, tepary bean, wax bean); bean (<i>Vigna</i> spp.) (includes adzuki bean, asparagus bean, blackeyed pea, catjang, Chinese longbean, cowpea, Crowder pea, moth bean, mung bean, rice bean, southern pea, urd bean, yardlong bean); broad bean (Fava bean); chickpea (garbanzo bean); guar; jackbean; lablab bean; lentil; pea (<i>Pisum</i> spp.) (includes dwarf pea, edible-podded pea, English pea, field pea, garden pea, green pea, snow pea, sugar snap pea); pigeon pea; soybean; soybean (immature seed); sword bean	

Diseases Controlled	Application Rate (mL/100 kg seed)
Seed rot/pre-emergence damping-off caused by <i>Pythium</i> spp. Early season root rot caused by <i>Phytophthora sojae</i> Early season root rot caused by <i>Aphanomyces euteiches</i> (suppression only)	19.6-39.1 (7.5-15 g ai/100 kg seed) Soybean: To deliver 7.5 g ai/100 kg seed, apply 4.4 mL per 140,000 seed (equals 0.0121 mg ai/seed) based on 6167 seed/kg (2800 seed/lb) count Bean: To deliver 7.5 g ai/100 kg seed, apply 5.5 mL per 100,000 seed (equals 0.0212 mg ai/seed) based on 3524 seed/kg (1600 seed/lb) count Pea: To deliver 7.5 g ai/100 kg seed, apply 2.8 mL per 100,000 seed (equals 0.0106 mg ai/seed) based on 7007 seed/kg (3181 seed/lb) count
Crop subgroup 20A: Rapeseeds and carinata	
Rapeseed, Canola Varieties Only: Borage; crambe; cuphea; echium; flax seed; gold of pleasure; hare's ear mustard; lesquerella; lunaria; meadowfoam; milkweed; mustard seed; oil radish; poppy seed; rapeseed (including canola); sesame; sweet rocket; cultivars, varieties, and/or hybrids of these	
Diseases Controlled	Application Rate (mL/100 kg seed)
Seed rot/pre-emergence damping-off caused by <i>Pythium</i> spp.	13 – 19.6 mL (5-7.5 g ai/100 kg seed)
Crop subgroup 20B: Sunflowers	
Calendula, Castor oil plant, Euphorbia, Evening Primrose, Niger seed, Rose hip, Safflower, Stokes aster, Sunflower; cultivars, varieties, and/or hybrids of these	
Diseases Controlled	Application Rate
Seed rot/pre-emergence damping-off caused by <i>Pythium</i> spp. Seed-borne downy mildew (<i>Plasmopora halstedii</i>)	0.1 to 0.15 mg ai/seed (equivalent to 154-231 g ai/100 kg or 402 to 603 mL product per 100 kg seed based on seed count of 15,400 seeds/kg)
Sugar Beet	
Diseases Controlled	Application Rate
Seed rot/pre-emergence damping-off caused by <i>Pythium</i> spp.	10.4 mL/seed unit* (equivalent to 4 g ai/seed unit)
Early season root rot caused by <i>Aphanomyces cochlioides</i> (suppression only)	10.4 mL/seed unit OR 4 g ai/seed unit
DO NOT treat sugar beet seeds in Canada. FOR IMPORT USE ONLY.	
Incorporate INTEGO Master Fungicide into pelleting process for application to sugar beet seed.	

***A seed unit is 100,000 seeds.**

The volume of product required to treat 100 kg of raw seeds can be calculated with the following formula:

mL per 100 kg raw seeds = 4 g ai/seed unit X number of raw seeds/kg ÷ 383 g a.i./L

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.

SEED QUALITY AND STORAGE OF TREATED SEED

- Laboratory and field studies have shown that *INTEGO Master* Fungicide applied to seed will not adversely affect germination.
- Due to seed quality conditions beyond the control of Valent Canada, Inc., no claims are made to guarantee germination of carry-over seed. Treatment of mechanically scarred or damaged seed, or of seed known to be of low germ, low vigour and poor quality is not recommended.
- Treatment of highly mechanically damaged seed, or seed of known low vigour and poor quality, may result in reduced germination and/or reduction of seed and seedling vigour. Treat and conduct germination tests on a small portion of seed before committing the total seed lot to a selected chemical treatment. Due to seed quality conditions beyond the control of Valent Canada, Inc., no claims are made to guarantee germination of carry-over seed.

SEEDING EQUIPMENT:

INTEGO Master Fungicide-treated seeds may not flow through seeding equipment at the same rate as other seed treated with other seed treatment products or untreated seed. Re-calibration of seeding equipment is recommended before planting seed treated with *INTEGO Master* Fungicide to ensure proper planting rate in the field.

RESISTANCE MANAGEMENT RECOMMENDATIONS:

For resistance management, INTEGO Master Fungicide contains a Group 22 fungicide. Any fungal population may contain individuals naturally resistant to INTEGO Master Fungicide and other Group 22 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 INTEGO Master Fungicide with different chemical groups that control the same pathogens.
- Use tank mixtures with fungicides from a different group that are effective on the target pathogen when such use is permitted.
- 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 Valent Canada if reduced sensitivity of the pathogen to INTEGO Master Fungicide 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 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 and to report suspected resistance, contact Valent Canada, Inc. at 1-800-682-5368.

INTEGO is a registered trademark of Valent U.S.A. LLC