



**** CARTON****

GROUP	3	FUNGICIDE
GROUP	4	FUNGICIDE

METLOCK™ CT Fungicide
SOLUTION
COMMERCIAL

METLOCK CT Fungicide is a seed treatment product for barley, corn, teosinte, oats, wheat, and other cereal grains, providing systemic fungicide protection against listed seed and seedling diseases.

GUARANTEE: Metalaxyl.....46.5 g/L
Metconazole..... 23.2 g/L

REGISTRATION NUMBER 32371 PEST CONTROL PRODUCTS ACT

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

NET CONTENTS: 1 L to Bulk

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 red colourant must be added when the 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., Ontario, N1C 0A1
Contact Phone Number: (519) 767-9262
www.valent.ca

For all seed types, commercial seed treatment (facilities and mobile treaters, with closed transfer including closed mixing, loading, calibrating, and closed treatment equipment only) is permitted. For cereal grains seeds (excluding corn and teosinte), on-farm treatment (open transfer including open mixing, loading, calibrating, and open treatment equipment) is permitted.

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.

METLOCK is a trademark of Valent U.S.A. Corporation.



**** CONTAINER****

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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 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 center 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 OUT OF REACH OF CHILDREN. Harmful if swallowed. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco. Remove contaminated clothing and wash before reuse.

Seed Treatment Workers:

- Workers mixing, loading, treating or maintaining and repairing seed treatment equipment, bagging, sewing or stacking treated seeds must wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes.
- When bagging or sewing bags of treated seeds or when transferring seeds to a storage bin, workers must wear a NIOSH-approved N95 filtering face piece respirator (dust mask) that is properly fit tested.
- When cleaning treating equipment, workers must wear chemical-resistant coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves and socks and shoes.
- When planting, workers must wear a long-sleeved shirt, long pants, socks and shoes, as well as chemical-resistant gloves when handling treated seeds. A closed-cab planter is required when

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planting treated cereal grain seeds. An open-cab planter may be used when planting corn and teosinte seeds.

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.
- Follow manufacturer's instructions for cleaning/maintaining. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

ENVIRONMENTAL HAZARDS:

Toxic to aquatic organisms and non-target terrestrial plants.

This product demonstrates the properties and characteristics associated with chemicals detected in ground water. The use of METLOCK CT in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination.

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, contact Valent Canada. Inc..

STORAGE AND DISPOSAL:

Do not contaminate water, food or feed by storage, disposal, or by cleaning of equipment.

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

PESTICIDE 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.

CONTAINER 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:

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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:

1. After use, return the container to the point of purchase or designated locations.
2. This container must only be refilled with *METLOCK* CT Fungicide at designated locations.
3. Do not reuse container for other purposes.
4. Prior to refilling inspect thoroughly for damage.
5. Check for leaks after refilling and before transportation.
6. Do not refill or transport damaged or leaking containers.
7. If the container is not being refilled, return to the point of purchase.

NON-RECYCLABLE/RETURNABLE/REFILLABLE CONTAINER:

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**** BOOKLET****

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Seed Treatment Workers:

- Workers mixing, loading, treating or maintaining and repairing seed treatment equipment, bagging, sewing or stacking treated seeds must wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes.
- When bagging or sewing bags of treated seeds or when transferring seeds to a storage bin, workers must wear a NIOSH-approved N95 filtering face piece respirator (dust mask) that is properly fit tested.
- When cleaning treating equipment, workers must wear chemical-resistant coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves and socks and shoes.

- When planting, workers must wear a long-sleeved shirt, long pants, socks and shoes, as well as chemical-resistant gloves when handling treated seeds. A closed-cab planter is required when planting treated cereal grain seeds. An open-cab planter may be used when planting corn and teosinte seeds.

User Safety Recommendations:

User should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
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ENVIRONMENTAL HAZARDS:

Toxic to aquatic organisms and non-target terrestrial plants.

This product demonstrates the properties and characteristics associated with chemicals detected in ground water. The use of METLOCK CT in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination.

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.

LABELLING OF TREATED SEED:

All bags containing treated seed must be labeled or tagged as follows:

- This seed was treated with a product containing the active ingredients metalaxyl and metconazole.
- Do not use treated seed for feed, food or oil processing.
- Store away from feeds and other foodstuffs.
- When planting, workers must wear a long-sleeved shirt, long pants, socks and shoes, as well as chemical-resistant gloves when handling treated seeds.
- 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. Do not contaminate water bodies when disposing of planting equipment washwaters.
- Dispose of seed packaging in accordance with local requirements.
- Treated seeds exposed on soil surface may be hazardous to wildlife. Cover or incorporate spilled treated seeds.
- A closed-cab planter is required when planting treated cereal grain seeds. An open-cab planter may be used when planting corn and teosinte seeds.

STORAGE AND DISPOSAL:

Do not contaminate water, food or feed by storage, disposal, or by cleaning of equipment.

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

PESTICIDE 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.

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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:

1. After use, return the container to the point of purchase or designated locations.
2. This container must only be refilled with *METLOCK CT* Fungicide at designated locations.
3. Do not reuse container for other purposes.
4. Prior to refilling inspect thoroughly for damage.
5. Check for leaks after refilling and before transportation.
6. Do not refill or transport damaged or leaking containers.
7. If the container is not being refilled, return to the point of purchase.

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1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Follow provincial instructions for any required additional cleaning of the container prior to its disposal.
3. Make the empty container unsuitable for further use.
4. Dispose of the container in accordance with provincial requirements.

GENERAL INFORMATION:

METLOCK CT Fungicide is a systemic fungicide formulated for seed treatment use to control or suppress listed seed-borne and soil-borne diseases of cereal grains. The fungicide active ingredients in *METLOCK CT* Fungicide are metconazole, a broad-spectrum, systemic, triazole fungicide and

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metalaxyl, an oomycete-active, systemic acylalanine fungicide. The fungicide components provide activity against *Pythium* spp., *Rhizoctonia solani*, *Fusarium* spp. and other Deuteromycete and Basidiomycete (smut and bunt) fungi.

For all seed types, commercial seed treatment (facilities and mobile treaters, with closed transfer including closed mixing, loading, calibrating, and closed treatment equipment only) is permitted. For cereal grains seeds (excluding corn and teosinte), on-farm treatment (open transfer including open mixing, loading calibrating, and open treatment equipment) is permitted.

MODE OF ACTION

Metalaxyl fungicide contained in *METLOCK CT Fungicide* is a member of the acylalanine chemical group (FRAC Code 4) and interrupts fungal nucleic acid synthesis. Metconazole belongs to the sterol biosynthesis inhibitor group of fungicides (FRAC Code 3).

DIRECTIONS FOR USE:

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

Accurate application of *METLOCK CT Fungicide* to seed is required for best performance. Application to seed by commercial and on-farm seed treatment equipment utilizing standard liquid or slurry treaters, is necessary. Thoroughly mix *METLOCK CT Fungicide* in the desired seed slurry mixture, prior to application to seed.

METLOCK CT 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 red colourant must be added when this product is applied to grain seed.

Calibrate seed treatment equipment prior to application of *METLOCK CT 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

BARLEY			
Seed/Seedling Diseases	<i>METLOCK CT Fungicide</i> Use Rates		
	mL/100 kg seed	Active Ingredient (mg ai/seed) ¹	Total Active Ingredient (mg ai/seed) ¹
Early season seed rot/ pre-emergence damping-off caused by <i>Fusarium</i> spp. and <i>Rhizoctonia solani</i>	65.2	Metalaxyl (0.001) Metconazole (0.0005)	0.0015
Early season seed rot/pre-emergence damping-off,			

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post-emergence damping-off, seedling blight and seedling root rot caused by <i>Pythium</i> spp. Common root rot caused by <i>Cochliobolus sativus</i> (suppression) Covered smut (<i>Ustilago</i> <i>hordei</i>) True loose smut (<i>Ustilago</i> <i>nuda</i>)			
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¹mg active ingredient per seed is based on 29,967 seeds/kg (13,605 seeds/lb).

CORN (TEOSINTE, FIELD, POP, SWEET, includes seed production)				
Seed/Seedling Diseases	METLOCK CT Fungicide Use Rates			
	mL/100 kg seed	fl oz/80,000 Kernal Count	Active Ingredient (mg ai/seed)²	Total Active Ingredient (mg ai/seed)²
Seed rot/pre-emergence damping-off (<i>Fusarium</i> spp.) Seed rot/pre-emergence damping-off, post-emergence damping-off (<i>Rhizoctonia solani</i>) Early season seed rot/pre-emergence damping-off, post-emergence damping-off, seedling blight and seedling root rot caused by <i>Pythium</i> spp.	65.2-97.8	0.49-0.74	Metalaxyl (0.0084-0.0126) Metconazole (0.0042-0.0063)	0.0126-0.0189

²calculation is based on 3,590 seeds/kg (1,630 seeds/lb).

OATS			
Seed/Seedling Diseases	METLOCK CT Fungicide Use Rates		
	mL/100 kg seed	Active Ingredient (mg ai/seed)³	Total Active Ingredient (mg ai/seed)³
Early season seed rot/ pre-emergence damping-off	65.2	Metalaxyl (0.00072)	0.00108

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<p>caused by <i>Fusarium</i> spp. and <i>Rhizoctonia solani</i></p> <p>Early season seed rot/pre-emergence damping-off, post-emergence damping-off, seedling blight and seedling root rot caused by <i>Pythium</i> spp.</p> <p>Common root rot caused by <i>Cochliobolus sativus</i> (suppression)</p>		<p>Metconazole (0.00036)</p>	
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³mg active ingredient per seed is based on 41,954 seeds/kg (19,047 seeds/lb).

WHEAT			
Seed/Seedling Diseases	METLOCK CT Fungicide Use Rates		
	mL/100 kg seed	Active Ingredient (mg ai/seed)⁴	Total Active Ingredient (mg ai/seed)⁴
<p>Early season seed rot/ pre-emergence damping-off caused by <i>Fusarium</i> spp. and <i>Rhizoctonia solani</i></p> <p>Early season seed rot/pre-emergence damping-off, post-emergence damping-off, seedling blight and seedling root rot caused by <i>Pythium</i> spp.</p> <p>Common root rot caused by <i>Cochliobolus sativus</i> (suppression)</p> <p>Common bunt (<i>Tilletia laevis</i>)</p> <p>Loose smut (<i>Ustilago tritici</i>)</p>	<p>65.2</p>	<p>Metalaxyl (0.0012)</p> <p>Metconazole (0.0006)</p>	<p>0.0018</p>

⁴mg active ingredient per seed is based on 24,974 seeds/kg (11,338 seeds/lb).

OTHER CEREAL GRAINS (including Buckwheat, Pearl Millet, Proso Millet, Rye, Triticale)			
Seed/Seedling Diseases	METLOCK CT Fungicide Use Rates		
	mL/100 kg seed	Active Ingredient (mg ai/seed)⁵	Total Active Ingredient (mg ai/seed)⁵
<p>Early season seed rot/ pre-emergence damping-off caused</p>	<p>65.2</p>	<p>Metalaxyl (0.001)</p>	<p>0.0015</p>

<p>by <i>Fusarium</i> spp. and <i>Rhizoctonia solani</i> Early season seed rot/pre-emergence damping-off, post-emergence damping-off, seedling blight and seedling root rot caused by <i>Pythium</i> spp. Common root rot caused by <i>Cochliobolus sativus</i> (suppression) on rye and triticale</p>		<p>Metconazole (0.0005)</p>	
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⁵mg active ingredient per seed is based on 29,967 seeds/kg (13,605 seeds/lb).

SEED QUALITY AND STORAGE OF TREATED SEED

- Laboratory and field studies have shown that *METLOCK CT* 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 vigor and poor quality, may result in reduced germination and/or reduction of seed and seedling vigor. 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:

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

ROTATIONAL CROP RESTRICTIONS:

Barley, corn, canola, oats, rye, wheat, soybeans, and sugarbeet may be replanted at any time. A 35-day plant back interval for all other crops.

RESISTANCE MANAGEMENT RECOMMENDATIONS:

For resistance management, please note that *METLOCK CT* Fungicide contains Group 3 and 4 fungicides. Any fungal population may contain individuals naturally resistant to *METLOCK CT* Fungicide and other Group 3 and 4 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 are specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

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To delay fungicide resistance:

Where possible, rotate the use of *METLOCK CT* Fungicide or other Group 3 or 4 fungicides with different groups that control the same pathogens.

Use tank mixtures with fungicide from a different group that is 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.

Where possible, make use of predictive disease models to effectively time fungicide applications.

Monitor treated fungal populations for resistance development. Notify Valent Canada, Inc. if reduced sensitivity of the pathogen to *METLOCK CT* 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.

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