

2020-6080 2021-08-20  
Label Correction made 2022-12-07

Bag Label

<b>GROUP</b>	<b>M3</b>	<b>FUNGICIDE</b>
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**MANZATE® PRO-STICK®**  
FUNGICIDE

DRY FLOWABLE

COMMERCIAL

REGISTRATION NO. 28217 PEST CONTROL PRODUCTS ACT



WARNING

POISON

DANGER – EYE IRRITANT

READ THE LABEL AND BROCHURE BEFORE USING

**ACTIVE INGREDIENT** : Mancozeb 75.0%

NET CONTENTS: 2.5 - 25 kg

UPL AgroSolutions Canada Inc.  
630 Freedom Business Center, Suite 402  
King of Prussia, PA 19406  
For Product Use Information Call 1-800-438-6071

FOR CHEMICAL EMERGENCY: spill, leak, fire, exposure, or accident call  
CHEMTREC 1-800-424-9300

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## **PRECAUTIONS:**

### **KEEP OUT OF REACH OF CHILDREN.**

MAY IRRITATE EYES, NOSE, THROAT AND SKIN.  
MAY BE HARMFUL IF INHALED OR SWALLOWED.

Avoid breathing dust or spray mist.

Avoid contact with skin, eyes and clothing.

Keep away from fire or sparks.

Wash thoroughly with soap and water after handling and before eating, drinking, smoking or using toilet.

Remove contaminated clothing and wash separately from normal laundry with soap and water before reuse.

Apply only when the potential for drift beyond the area to be treated is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment, and sprayer settings.

## **FIRST AID**

**INHALATION:** 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.

**SKIN OR CLOTHING CONTACT:** 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.

**EYE CONTACT:** 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.

**INGESTION:** 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.

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

## **TOXICOLOGICAL INFORMATION**

Treat symptomatically.

## **STORAGE**

Store product in original container only, away from feed or food. Do not allow product to become wet or overheated in storage. Chemical changes may occur to impair fungicidal effectiveness, and may also generate flammable vapors. Keep container tightly closed.

## **DISPOSAL**

1. Completely empty bag into spray mixture tank.
2. Make the empty bag unsuitable for further use.
3. Dispose of the container in accordance with provincial requirements.
4. 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.

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DIRECTIONS FOR USE BOOKLET

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## **PRECAUTIONS:**

### **KEEP OUT OF REACH OF CHILDREN.**

MAY IRRITATE EYES, NOSE, THROAT AND SKIN.  
MAY BE HARMFUL IF INHALED OR SWALLOWED.

Avoid breathing dust or spray mist.  
Avoid contact with skin, eyes and clothing.  
Keep away from fire or sparks.

Apply only when the potential for drift beyond the area to be treated is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment, and sprayer settings.

This product is not to be used in or around homes or other residential areas such as parks, school grounds and/or playing fields. Residential areas are defined as any use site where the general public, including children, could be exposed during or after application. It is not for use by homeowners.

DO NOT enter or allow worker entry into treated areas during the restricted-entry interval (REI) on the label. Employers should make every effort to schedule pesticide applications and worker tasks in order to avoid early entry of workers into treated areas. Under exceptional circumstances, certified pesticide applicators may enter treated areas for short-term tasks not involving hand labour if at least 4 hours have passed since application and a long-sleeved shirt, long pants, chemical-resistant footwear, socks, goggles, chemical-resistant gloves and a respirator with a NIOSH-approved organic-vapour-removing cartridge with a prefilter approved for pesticides OR a NIOSH-approved canister approved for pesticides is worn. Time spent in the treated area cannot exceed 1 hour in a 24-hour period or until restricted-entry interval is over.

## **Personal Protective Equipment (PPE)**

Wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, application, clean-up and repair. A respirator with a NIOSH-approved organic-vapour-removing cartridge with a prefilter approved for pesticides, or a NIOSH-approved canister approved for pesticides is required when mixing/loading. Gloves are not required during application within a closed cab or cockpit.

In addition, wear chemical-resistant headgear during open cab airblast application. Chemical-resistant headgear includes Sou'Wester hat, chemical-resistant rain hat or large brimmed waterproof hat and hood with sufficient neck protection. Gloves and chemical-resistant hat are not required during application within a closed cab.

During open-cab groundboom application, applicators must wear either a respirator with a NIOSH approved organic-vapour-removing cartridge with a prefilter approved for pesticides OR a NIOSH approved canister approved for pesticides OR use a closed-cab tractor that provides both a physical barrier and respiratory protection (such as dust/mist filtering and/or vapour/gas purification system) when handling more than 467 kg per person per day. The closed cab must have a chemical-resistant barrier that totally surrounds the occupant and prevents contact with pesticides outside the cab. These restrictions are in place to minimize exposure to individual applicators. Application may need to be performed over multiple days or using multiple applicators.

Wash thoroughly with soap and water after handling and before eating, drinking, smoking or using toilet.

Remove contaminated clothing and wash separately from normal laundry with soap and water before reuse.

## FIRST AID

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

## TOXICOLOGICAL INFORMATION

Treat symptomatically.

## ENVIRONMENTAL PRECAUTIONS

- TOXIC to aquatic organisms. Observe buffer zones specified under DIRECTIONS FOR USE.
- TOXIC to small wild mammals.
- TOXIC to birds
- May be toxic to bees. Minimize spray drift to reduce harmful effects on bees in habitats close to the application site. Avoid application during the crop blooming period. If applications must be made during the crop blooming period, restrict applications to the evening when most bees are not foraging. Avoid applications when bees are foraging in the treatment area in ground cover containing blooming weeds. To further minimize exposure to pollinators, refer to the complete guidance "Protecting Pollinators during Pesticide Spraying – Best Management Practices" on the Health Canada website ([www.canada.ca/pollinators](http://www.canada.ca/pollinators)).
- Toxic to certain beneficial arthropods (which may include predatory and parasitic insects, spiders, and mites). Minimize spray drift to reduce harmful effects on beneficial arthropods in habitats next to the application site such as hedgerows and woodland.
- 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.
- Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip between the treated area and the edge of the water body.
- 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 ground water contamination.

## DIRECTIONS FOR USE

MANZATE PRO-STICK Fungicide should be used only in accordance with recommendations on this label. When applied as directed, MANZATE PRO-STICK will control the listed diseases, unless otherwise indicated as suppression.

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.

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- DO NOT apply using handheld equipment.
- DO NOT apply by hand.
- DO NOT apply in greenhouses.
- As this pesticide 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.
- To protect pollinators, follow the instructions regarding bees in the Environmental Precautions section.

Use MANZATE PRO-STICK Fungicide at the rate shown; ensure good coverage by using 200-1000 L per ha for ground equipment and 50-80 L/ha for aircraft. A spreader-sticker may be used if needed. Add MANZATE PRO-STICK Fungicide slowly to water with agitation, or premix thoroughly for concentrate or aircraft sprays. Continuous agitation is required to keep the product in suspension.

### **Application Use Precautions**

Apply only when meteorological conditions at the treatment site allow for complete and even crop coverage. Apply only under conditions of good practice specific to aerial application as outlined in the *National Aerial Pesticide Application Manual*, developed by the Federal/Provincial/Territorial Committee on Pest Management and Pesticides. Do not apply to any body of water. Avoid drifting of spray onto any body of water or to other non-target areas. Specified buffer zones should be observed. Coarse sprays are less likely to drift, therefore, avoid combinations of pressure and nozzle type that will result in fine particles (mist). Do not apply during periods of dead calm or when velocity and direction poses a risk of spray drift. Do not spray when the wind is blowing towards a nearby sensitive crop, garden, terrestrial habitat (such as shelterbelt) or aquatic habitat. Apply only when the potential for drift to areas of human habitation or areas of human activity such as houses, cottages, schools and recreational areas is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment and sprayer settings.

### **Operator Precautions**

Do not allow the pilot to mix chemicals to be loaded onto the aircraft. Loading of premixed chemicals with a closed system is permitted. It is desirable that the pilot has communication capabilities at each treatment site at the time of application. The field crew and the mixer/loaders must wear chemical resistant gloves, coveralls and goggles or face shield during mixing/loading, cleanup and repair. Follow the more stringent label precautions in cases where the operator precautions exceed the generic label recommendations on the existing ground boom label. All personnel on the job site must wash hands and face thoroughly before eating and drinking. Protective clothing, aircraft cockpit and vehicle cabs must be decontaminated regularly.

### **Product Specific Precautions**

Read and understand the entire label before opening this product. If you have questions, call UPL NA Inc. at 1-800-438-6071 or obtain technical advice from the distributor or your provincial agricultural representative. Application of this specific product must meet and/or conform to the following: Volume: Apply the recommended rate in a minimum spray volume of 50 to 80 litres per hectare. Add MANZATE PRO-STICK Fungicide slowly to water with agitation, or premix thoroughly for concentrate or aircraft sprays. Continuous agitation is required to keep the product in suspension. All personnel on the job site must wash hands and face thoroughly before eating and drinking. Protective clothing, aircraft cockpit and vehicle cabs must be decontaminated regularly.

**Aerial application:** DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty. DO NOT apply when wind speed is greater than 16 km/h at flying height at the site of application. DO NOT apply with spray droplets smaller than the American Society of

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Agricultural Engineers (ASAE S572.1) medium classification. Reduce drift caused by turbulent wingtip vortices. Nozzle distribution along the spray boom length MUST NOT exceed 65% of the wing- or rotorspan.

Apply only by fixed-wing or rotary aircraft equipment which has been functionally and operationally calibrated for the atmospheric conditions of the area and the application rates and conditions of this label.

Label rates, conditions and precautions are product specific. Read and understand the entire label before opening this product. Apply only at the rate recommended for aerial application on this label. Where no rate for aerial application appears for the specific use/crop, this product cannot be applied by any type of aerial equipment for that use/crop.

Ensure uniform application. To avoid streaked, uneven or overlapped application, use appropriate marking devices.

**Field sprayer application:** DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty. DO NOT apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE S572.1) medium classification. Boom height must be 60 cm or less above the crop or ground.

**Airblast application:** DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty. DO NOT direct spray above plants to be treated. Turn off outward pointing nozzles at row ends and outer rows. DO NOT apply when wind speed is greater than 16 km/h.

**Buffer zones:**

Spot treatments using hand-held equipment do not require a spray buffer zone. Use of low-clearance hooded or shielded sprayers that prevent spray contact with crop, fruit or foliage, and soil drench or soil incorporation do not require a spray buffer zone.

The spray buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands) and estuarine/marine habitats.

Method of application	Crop		Spray Buffer Zones (metres) Required for the Protection of:			
			Freshwater Habitat of Depths:		Estuarine/Marine Habitat of Depths:	
			Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m
Field sprayer	Onions (foliar), potatoes, sugarbeets		5	1	2	1
	Field tomato, cantaloupe, cucumbers, melons, pumpkins, squash		5	1	3	1
	Ginseng		10	2	4	2
	Onions (in-furrow)		15	1	5	3
Airblast	Apples	Early growth stage	45	25	35	25
		Late growth stage	35	20	25	20
	Grapes	Early growth	40	20	30	20



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		stage				
		Late growth stage	30	10	20	10
Aerial	Potatoes	Fixed-wing	275	15	45	15
		Rotary-wing	150	10	35	10

For tank mixes, consult the labels of the tank-mix partners and observe the largest (most restrictive) spray buffer zone of the products involved in the tank mixture and apply using the coarsest spray (ASAE) category indicated on the labels for those tank mix partners.

The spray buffer zones for this product can be modified based on weather conditions and spray equipment configuration by accessing the Spray Buffer Zone Calculator on the Pesticides portion of the Canada.ca website.

CROP	DISEASES CONTROLLED	USE RATE	DIRECTIONS FOR USE
Apple	Cedar apple rust ( <i>Gymnosporangium juniperivirginianae</i> ) Quince rust ( <i>Gymnosporangium clavipes</i> ), Scab ( <i>Venturia inaequalis</i> )	6 kg/ha (4.5 kg ai/ha)	<ul style="list-style-type: none"> <li>Re-treatment interval: 7 days</li> <li>Apply in protective schedule from green tip to second cover spray.</li> <li>Use 5 kg/ha after second cover if scab is at a low level.</li> <li>May cause some Injury to Golden Delicious.</li> <li>The addition of a wetting agent will ensure a smoother, more even coverage of your spray material and helps prevent blotchy, visible residues.</li> </ul>
	Scab ( <i>Venturia inaequalis</i> )	3.6 kg/ha (2.7 kg ai/ha) MANZATE PRO-STICK plus 190 g/ha VANGARD* 75WG Fungicide.	<ul style="list-style-type: none"> <li>Re-treatment interval: 7 days</li> <li>Apply between green tip and post bloom.</li> <li>Read and follow all precautions listed on the VANGARD 75WG label.</li> <li>Do not apply this tank mix by air.</li> </ul>
	<ul style="list-style-type: none"> <li>Do not apply more than 24 kg/ha/year (18 kg ai/ha/year).</li> <li>Do not make more than 4 applications/ha/year.</li> <li>Do not feed pomace from treated apples to livestock.</li> <li>Do not graze livestock in treated areas.</li> <li>Reentry interval (REI) for hand thinning is 35 days.</li> <li>Reentry interval (REI) for all other activities is 12 hours.</li> <li>Preharvest interval (PHI): 77 days.</li> </ul>		
Cucumber, Field	Alternaria leaf spot ( <i>Alternaria cucumerina</i> ), Anthracnose ( <i>Colletotrichum obiculare</i> ), Downy mildew ( <i>Pseudoperonospora cubensis</i> ), Gummy stem blight ( <i>Didymella bryoniae</i> ), Scab ( <i>Cladosporium cucumerinum</i> )	2.25 - 3.25 kg/ha (1.69 - 2.44 kg ai/ha)	<ul style="list-style-type: none"> <li>Retreatment interval: 7 days</li> <li>Apply when plants begin to vine, or when conditions are favorable for disease development.</li> </ul>
	<ul style="list-style-type: none"> <li>Do not apply more than 9.75 kg/ha/year (7.32 kg ai/ha/year).</li> <li>Do not make more than 3 applications/ha/year.</li> <li>Reentry interval (REI): 12 hours.</li> </ul>		

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	<ul style="list-style-type: none"> <li>Preharvest interval (PHI): 14 days.</li> </ul>		
Ginseng	Alternaria leaf blight ( <i>Alternaria panax</i> ).	4.4 kg/ha (3.3 kg ai/ha)	<ul style="list-style-type: none"> <li>Retreatment interval: 14 days</li> <li>Apply when disease first appears and follow with treatment every 14 days as part of a regular spray program.</li> <li>Make application in 2000 L of water.</li> </ul>
	<ul style="list-style-type: none"> <li>Do not apply more than 26.4 kg/ha/year (19.8 kg ai/ha/year).</li> <li>Do not make more than 6 applications/ha/year.</li> <li>Do not feed treated ginseng, roots or foliage, to livestock.</li> <li>Reentry interval (REI) for hand set/hand line irrigation related activities involving foliar contact is 1 day.</li> <li>Reentry interval (REI) for all other activities is 12 hours.</li> <li>Preharvest interval (PHI): 30 days.</li> </ul>		
Grapes	Black Rot ( <i>Guignardia bidwellii</i> ), Downy Mildew ( <i>Plasmopara viticola</i> )	3.0 kg/ha (2.25 kg ai/ha)	<ul style="list-style-type: none"> <li>Apply pre-bloom when new shoots are 20-25 cm long.</li> </ul>
	<ul style="list-style-type: none"> <li>Do not apply more than 3.0 kg/ha/year (2.25 kg ai/ha/year).</li> <li>Do not make more than 1 application/ha/year.</li> <li>Reentry interval (REI) for girdling and turning activities is 21 days.</li> <li>Reentry interval (REI) for leaf pulling by hand, tying, training activities is 7 days.</li> <li>Reentry interval (REI) for hand set/hand line irrigation related activities involving foliar contact is 1 day.</li> <li>Reentry interval (REI) for all other activities is 12 hours.</li> <li>Preharvest interval (PHI): 66 days.</li> </ul>		
Melons including cantaloupe, excluding watermelon, Squash and Pumpkin	Alternaria leaf spot ( <i>Alternaria cucumerina</i> ), Anthracnose ( <i>Colletotrichum obiculare</i> ), Downy mildew ( <i>Pseudoperonospora cubensis</i> ), Gummy stem blight ( <i>Didymella bryoniae</i> ), Scab ( <i>Cladosporium cucumerinum</i> )	1.10 - 3.25 kg/ha (0.84-2.44 kg ai/ha)	<ul style="list-style-type: none"> <li>Retreatment interval: 7 days</li> <li>Apply In sufficient water volume to provide adequate coverage.</li> <li>Start applications when runners begin to form or at first sign of disease and repeat at weekly intervals.</li> <li>Direct spray for thorough coverage of both upper and lower leaf surfaces.</li> </ul>
	<ul style="list-style-type: none"> <li>Do not apply more than 9.75 kg/ha/year (7.31 kg ai/ha/year)</li> <li>Do not make more than 3 applications/ha/year.</li> <li>Reentry interval (REI): 12 hours.</li> <li>Preharvest interval (PHI): 14 days.</li> </ul>		
Onions (dry bulb), foliar	Botrytis leaf blight ( <i>Botrytis squamosa</i> ), Downy mildew ( <i>Peronospora destructor</i> ), Neck rot ( <i>Botrytis allii</i> ), Purple blotch ( <i>Alternaria porri</i> )	2.25 kg/ha (1.69 kg ai/ha)	<ul style="list-style-type: none"> <li>Retreatment interval: 7 days</li> <li>Begin applications when disease is first reported in the area or when conditions are favorable for disease development.</li> </ul>
	Botrytis leaf blight ( <i>Botrytis squamosa</i> ), Downy mildew ( <i>Peronospora destructor</i> )	2.25 kg ha (1.69 kg ai/ha) MANZATE PRO-STICK plus 0.75 kg/ha ROVRAL WP or ROVRAL	<ul style="list-style-type: none"> <li>Retreatment interval: 7 to 10 days</li> <li>The addition of a non-ionic surfactant will improve performance.</li> <li>Apply this tankmix as a preventative treatment.</li> <li>Application can begin mid-June or when conditions are favourable for</li> </ul>

		WDG Fungicide.	disease infection. <ul style="list-style-type: none"> <li>• DO NOT apply this tankmix within 15 days of harvest.</li> <li>• Read and follow all precautions listed on the ROVRAL WP or ROVRAL WDG Fungicide labels.</li> </ul>
	<ul style="list-style-type: none"> <li>• Do not apply to exposed bulbs.</li> <li>• Do not use on green bunching onions.</li> <li>• Do not apply more than 13.5 kg/ha/year (10.13 kg ai/ha/year)</li> <li>• Do not make more than 6 applications/ha/year.</li> <li>• Reentry interval (REI) for hand weeding is 1 day.</li> <li>• Reentry interval (REI) for all other activities is 12 hours.</li> <li>• Preharvest interval (PHI): 14 days.</li> </ul>		
Potato	Early blight ( <i>Alternaria solani</i> ), Late blight ( <i>Phytophthora infestans</i> )	1.1 - 2.25 kg/ha (0.83-1.69 kg ai/ha)	<ul style="list-style-type: none"> <li>• Retreatment interval: 5 days</li> <li>• Begin applications when plants are 10-15 cm high and repeat on a 5-day interval depending on disease pressure. Start with the low rate/ha if disease pressure is low, or plants are small; increase to the maximum rate as foliage develops or disease pressure increases.</li> </ul>
	Early blight ( <i>Alternaria solani</i> ), Late blight ( <i>Phytophthora infestans</i> )	1.75 - 2.25 kg ha (1.31 - 1.69 kg ai/ha) MANZATE PRO-STICK plus 0.80 - 1.6 kg/ha KOCIDE 2000	<ul style="list-style-type: none"> <li>• Retreatment interval: 7 to 10 days</li> <li>• Apply when plants are 15 cm high until harvest.</li> <li>• Read and follow all precautions listed on the KOCIDE 2000 label.</li> </ul>
	Late blight ( <i>Phytophthora infestans</i> )	1.35 – 1.6 kg ha (1 - 1.2 kg ai/ha) MANZATE PRO-STICK plus 225 g/ha CURZATE Fungicide	<ul style="list-style-type: none"> <li>• Initial applications should start when local conditions indicate that Late Blight is imminent</li> <li>• make additional applications at 5- to 7-day intervals.</li> <li>• Apply no more than 4 applications per crop.</li> <li>• Do not apply to more than 150 ha/day.</li> <li>• Do not apply within 8 days of harvest.</li> <li>• Utilize sufficient water to obtain thorough coverage: 200 - 1000 L/ha (minimum of 50 L/ha if applying by air).</li> </ul>
	<ul style="list-style-type: none"> <li>• Do not apply more than 18.0 kg/ha/year (13.52 kg ai/ha/year).</li> <li>• Do not make more than 8 application/ha/year.</li> <li>• Reentry interval (REI): 12 hours</li> <li>• Preharvest interval (PHI): 3 days</li> <li>• The total seasonal applications of mancozeb and metiram combined cannot exceed the maximum number of 8 applications on potatoes of either chemical per year with no more than 3 applications being metiram.</li> </ul>		
Sugar Beets	Cercospora leaf spot ( <i>Cercospora beticola</i> )	2.25 kg/ha (1.69 kg ai/ha)	<ul style="list-style-type: none"> <li>• Retreatment interval: 7 days</li> <li>• Begin applications when disease</li> </ul>

			first appears or when conditions are favorable for disease development.
	<ul style="list-style-type: none"> <li>Do not apply more than 11.25 kg/ha/year (8.45 kg ai/ha/year).</li> <li>Do not make more than 5 applications/ha/year.</li> <li>Do not use treated tops for feed or food.</li> <li>Reentry Interval (REI): 12 hours.</li> <li>Preharvest Interval (PHI): 21 days.</li> </ul>		
Tomatoes, Field	Anthracnose ( <i>Colletotrichum</i> spp), Early blight ( <i>Alternaria solani</i> ), Gray leaf spot ( <i>Stemphyllium</i> ), Late blight ( <i>Phytophthora infestans</i> )	1.75 - 3.25 kg/ha (1.31 - 2.44 kg ai/ha)	<ul style="list-style-type: none"> <li>Retreatment interval: 7 days</li> <li>Apply when disease is first reported in the area or when conditions are favorable for disease development. Use the lower rate of 1.75 kg/ha on young plants, and the higher rate 3.25 kg/ha on mature plants.</li> </ul>
	<ul style="list-style-type: none"> <li>Do not apply more than 6.5 kg/ha/year (4.88 kg ai/ha/year).</li> <li>Do not make more than 2 applications/ha/year.</li> <li>Reentry Interval (REI): 12 hours.</li> <li>Preharvest Interval (PHI): 30 days.</li> </ul>		

**NOTE TO USER: READ THE FOLLOWING BEFORE USING THIS PRODUCT FOR SPECIAL USE APPLICATIONS:** The DIRECTIONS FOR USE for the uses described in this section of the label were developed by persons other than UPL NA Inc. under the User Requested Minor Use Label Expansion program. For these uses, UPL NA Inc. has not fully assessed performance (efficacy) and/or crop tolerance (phytotoxicity) under all environmental conditions or for all crop varieties when used in accordance with the label. The user should test the product on a small area first, under local conditions and using standard practices, to confirm the product is suitable for widespread application.

Onions (dry bulb), in-furrow	Onion smut ( <i>Urocysti cepulae</i> )	4.4 – 8.8 kg/ha MANZATE PRO-STICK (3.3 – 6.6 kg ai/ha)	<ul style="list-style-type: none"> <li>Apply as a granular in-furrow at seeding time.</li> </ul>
	<ul style="list-style-type: none"> <li>Do not make more than 1 application/ha/year.</li> <li>Reentry Interval (REI): 12 hours.</li> <li>Preharvest Interval (PHI): 100 days.</li> </ul>		

**RESISTANCE MANAGEMENT**

For resistance management, please note that MANZATE PRO-STICK Fungicide contains a Group M3 fungicide. Any fungal population may contain individuals naturally resistant to MANZATE PRO-STICK Fungicide and other Group M3 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 MANZATE PRO-STICK Fungicide or other Group M3 fungicides with different groups that control the same pathogens.
- Use tank mixtures with fungicide from a different group that are effective on the target pathogen, when such use is permitted.
- Fungicide use should be based on an IPM 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.

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- Where possible, make use of predictive disease models to effectively time fungicide application.
- Monitor treated fungal populations for resistance development. Notify UPL AgroSolutions Canada Inc. if reduced sensitivity of the pathogen to MANZATE PRO-STICK 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 target 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 UPL AgroSolutions Canada Inc. at 1-800-438-6071.

#### **STORAGE**

Store product in original container only, away from feed or food. Do not allow product to become wet or overheated in storage. Chemical changes may occur to impair fungicidal effectiveness, and may also generate flammable vapors. Keep container tightly closed.

#### **DISPOSAL**

1. Completely empty bag into spray mixture tank.
2. Make the empty bag unsuitable for further use.
3. Dispose of the container in accordance with provincial requirements.
4. 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.

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