GROUP 9 FUNGICIDE

IMPALA FUNGICIDE

For control or suppression of listed leaf and fruit diseases in pomefruits, grapes, strawberries, potatoes, field tomatoes, bulb vegetables, ginseng, highbush and lowbush blueberries, raspberries, and gooseberries.

COMMERCIAL

SUSPENSION

ACTIVE INGREDIENT: Pyrimethanil......400 g/L

Contains 5-chloro-2-methyl-4-isothiazolin-3- one at 0.00113% and 2-methyl-4-isothiazolin-3-one at 0.00037% as preservatives.

Warning, contains the allergen sulfites.

REGISTRATION NO. 34661 PEST CONTROL PRODUCTS ACT

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





NET CONTENTS: 250 mL-20 L

Sharda Cropchem Limited 2nd Floor, Prime Business Park, Dashrathlal Joshi Road, Vile Parle (West), Mumbai – 400056 India Canadian Agent: Sharda Cropchem Limited 63 Kingsview Blvd Etobicoke, Ontario, M9R 1V1 1-416-840-5639

In case of spills, poisoning or fire, telephone emergency response number **1-613-996-6666** (24 hours a day).

For product information, call: 1-844-810-5720

PRECAUTIONS:

- KEEP OUT OF REACH OF CHILDREN
- Harmful if inhaled. Avoid inhaling/breathing sprays.
- When tank-mixing is permitted, 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.
- Apply only when the potential for drift to areas of human habitation or areas of human activity such as houses, cottages, schools, and recreation areas is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment and sprayer settings.
- Wash thoroughly with soap and water after handling and before eating, drinking, or smoking.
- If product comes in contact with clothing, remove all contaminated clothing, wash skin with soap and water and dress in clean clothing. Launder applicator clothing separate from other laundry.
- If this pest control product is to be used on a commodity that may be exported to the United States and you require information on acceptable residue levels in the United States, visit CropLife Canada's web site at <u>www.croplife.ca</u>.

ENVIRONMENTAL PRECAUTIONS:

- Toxic to aquatic organisms. Observe spray buffer zones specified under DIRECTIONS FOR USE.
- To reduce runoff from treated area 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 filter strip between the treated area and the edge of the water body.
- DO NOT apply this product through any type of irrigation system.

PROTECTIVE CLOTHING AND EQUIPMENT:

Wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and boots during mixing, loading, application, clean-up and repair. Gloves are not required during application within a closed cab and/or cockpit. In addition, wear protective eyewear (goggles or face shield) during mixing, loading, clean-up and repair.

FIRST AID:

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:

- Treat symptomatically. Medical Personnel should contact **1-613-996-6666** (24 hours a day).

STORAGE:

- Do not contaminate water, food, or feed by storage or disposal.
- CANNOT BE STORED BELOW FREEZING.
- If stored for 1 year or longer, shake well before using.
- Store the tightly closed container away from feeds, seeds, fertilizer, plants and foodstuffs.
- Do not use or store in or around the home.
- Keep the product in the original container during storage.
- In case of fire, leaking or damaged containers, call 1-613-996-6666 (24 hours a day).

DISPOSAL:

Recyclable Container Disposal:

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.

Non-Returnable Container:

- 1. Triple or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
- 2. Follow provincial instruction 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.

Disposal of Unused Spray Solution:

If any spray solution remains in the tank after spraying is finished, it should be sprayed on the perimeter of the area just sprayed, NOT ON THE CROP, away from water supplies, ditches, and irrigation canals. Spray buffer zones indicated in the DIRECTIONS FOR USE must also be respected.

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.

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.

IMPALA FUNGICIDE

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IMPALA FUNGICIDE

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GENERAL INFORMATION

Section 1: The Product

THE PRODUCT:

IMPALA FUNGICIDE is a systemic, foliar fungicide that is effective for control or suppression of certain plant diseases on: potatoes, grapes, pomefruits, strawberries, bulb vegetables, field tomatoes, ginseng, highbush and lowbush blueberries, raspberries and gooseberries.

IMPALA FUNGICIDE is best suited for use in a preventative treatment program.

SAFETY AND HANDLING

Section 2: Precautions, Protective Clothing and Equipment, and Restricted-Entry Intervals.

PRECAUTIONS:

- KEEP OUT OF REACH OF CHILDREN
- Harmful if inhaled. Avoid inhaling/breathing sprays.
- When tank-mixing is permitted, 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.
- Apply only when the potential for drift to areas of human habitation or areas of human activity such as houses, cottages, schools, and recreation areas is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment and sprayer settings.
- Wash thoroughly with soap and water after handling and before eating, drinking, or smoking.
- If product comes in contact with clothing, remove all contaminated clothing, wash skin with soap and water and dress in clean clothing. Launder applicator clothing separate from other laundry.
- If this pest control product is to be used on a commodity that may be exported to the United States and you require information on acceptable residue levels in the United States, visit CropLife Canada's web site at <u>www.croplife.ca</u>.

PROTECTIVE CLOTHING AND EQUIPMENT:

Wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and boots during mixing, loading, application, clean-up and repair. Gloves are not required during application within a closed cab and/or cockpit. In addition, wear protective eyewear (goggles or face shield) during mixing, loading, clean-up and repair.

RESTRICTED-ENTRY INTERVAL:

- DO NOT enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours, except for activities involving for the following crops:
- For hand thinning in pome fruits and bulb vegetables, and for cane turning, girdling, training, tying, pruning, thinning and leaf pulling in grapes, DO NOT enter or allow worker entry into treated areas during the REI of 24 hours.

Section 3: First Aid and Toxicological Information

FIRST AID:

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:

- Treat symptomatically. Medical Personnel should contact **1-613-996-6666** (24 hours a day).

Section 4: Environmental Precautions

ENVIRONMENTAL PRECAUTIONS:

- TOXIC to aquatic organisms. Observe spray buffer zones specified under DIRECTIONS FOR USE.
- To reduce runoff from treated area 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 filter strip between the treated area and the edge of the water body.
- DO NOT apply this product through any type of irrigation system.

Section 5: Storage

STORAGE:

- Do not contaminate water, food, or feed by storage or disposal.
- CANNOT BE STORED BELOW FREEZING.
- If stored for 1 year or longer, shake well before using.
- Store the tightly closed container away from feeds, seeds, fertilizer, plants and foodstuffs.
- Do not use or store in or around the home.
- Keep the product in the original container during storage.
- In case of fire, leaking or damaged containers, call toll free 1-613-996-6666 (24 hours a day).

Section 6: Disposal

Recyclable Container Disposal:

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.

Non-Returnable Container:

- 1. Triple or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
- 2. Follow provincial instruction 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.

Disposal of Unused Spray Solution:

If any spray solution remains in the tank after spraying is finished, it should be sprayed on the perimeter of the area just sprayed, NOT ON THE CROP, away from water supplies, ditches, and irrigation canals. Spray buffer zones indicated in the DIRECTIONS FOR USE must also be respected.

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.

DIRECTIONS FOR USE

Section 7: Application Information and Precautions

APPLICATION INFORMATION:

Thorough coverage of all plant parts to be protected is essential for good disease control. Use sufficient water volume and spray pressure to provide thorough and uniform coverage for optimum disease control.

Fruit Crops – Apply IMPALA FUNGICIDE in a minimum spray volume of 1000 L/ha. Vegetable Crops – Apply IMPALA FUNGICIDE in a minimum spray volume of 300 L/ha for ground application and a minimum of 35 L/ha for aerial application.

APPLICATION PRECAUTIONS:

DO NOT apply more than 6.0 L/ha of IMPALA FUNGICIDE in a single growing season. As this product is not registered for the control of pests in aquatic systems, DO NOT use to control aquatic pests.

<u>Field sprayer application:</u> **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) medium classification. Boom height must be 60 cm or less above the crop or ground.

<u>Airblast application</u>: **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 at the application site as measured outside of the treatment area on the upwind side.

<u>Aerial Application:</u> **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 Agricultural Engineers (ASAE) medium classification. To reduce drift caused by turbulent wingtip vortices, the nozzle distribution along the spray boom length **MUST NOT** exceed 65 % of the wing- or rotorspan.

Apply IMPALA FUNGICIDE only by rotary or fixed-wing aircraft 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, this product cannot be applied by any type of aerial equipment.

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

Use Precautions for Aerial Applications:

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.

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 for Aerial Applications: 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 for Aerial Applications:

Read and understand the entire label before opening this product. If you have questions, call the manufacturer at 1-844-810-5720 or obtain technical advice from the distributor or your provincial agricultural representative.

Spray Buffer Zones:

Use of the following spray methods or equipment **DO NOT** require a spray buffer zone: hand-held or backpack sprayer and spot treatment. 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).

Method of application	Crop	Spray Buffer Zones the Protection of Fresl Dept	
		Less than 1 m	Greater than 1 m

Field sprayer	Potato, strawberry, bulb vegetables, field tomatoes, ginseng, lowbush blueberries	1	1
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	Damafinita	Early growth stage	15	1
	Pomefruits	Late growth stage	5	1
Airblast	Grape, Gooseberries, Raspberries and Highbush Blueberries	Early growth stage	20	1
		Late growth stage	10	1
Aerial	Potato	Fixed and rotary wing	10	1

When tank mixes are permitted, 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.

ROTATIONAL CROP RESTRICTIONS:

Crops on this label may be rotated anytime following the last application of IMPALA FUNGICIDE. Do not rotate to other crops for 30 days following the last application of IMPALA FUNGICIDE.

CROP	DISEASE	RATE	APPLICATION DIRECTIONS
	CONTROLLE		
	D OR		
	SUPPRESSED		
Pome fruits	Pear scab	IMPALA FUNGICIDE applied	Apply early in the season at 7-12 day
Apple	(Venturia	<u>alone.</u> Apply IMPALA	intervals, from green tip to petal drop. For
Crabapple	pirina)	FUNGICIDE at 0.75 to 1.0 L/ha.	scab control, do not apply post-bloom.
Mayhaw	Apple scab	Use the higher rate under high	
Pear	(Venturia	disease pressures. Ensure this rate	PHI of 14 days for apple, crabapple and
Oriental pear	inaequalis)	is maintained in concentrate or	mayhaw.
Quince	- ·	dilute spray applications. Apply a	PHI of 72 days for pear, oriental pear and
		maximum of 4 applications for	quince.
		scab alone.	Apply by ground only.
Apple		IMPALA FUNGICIDE applied	Apply early in the season at 7-12 day
	Apple scab	in tank mixture with DITHANE	intervals, form green tip to petal drop. For
	(Venturia	DG Rainshield NT Fungicide:	scab control, do not apply post-bloom.
	inaequalis)		PHI of 45 days.
		Apply IMPALA FUNGICIDE	Apply by ground only.
		at 750 mL/ha plus DITHANE DG	
		Rainshield NT Fungicide at	
		3 kg/ha. Read and follow all	
		precautions listed on the	
		DITHANE DG Rainshield NT	
		Fungicide label.	
		A maximum of 4 applications per	
		year may be made.	
Apple	Storage	IMPALA FUNGICIDE applied	Apply 2 weeks before harvest.
	diseases:	alone. Apply a single application	PHI of 14 days.
		of IMPALA FUNGICIDE at	Apply by ground only.

Section 8: Crop, Disease, Rate, Timing

CROP	DISEASE CONTROLLE	RATE	APPLICATION DIRECTIONS
	D OR SUPPRESSED		
	Control of Grey Mould (<i>Botrytis</i> <i>cinerea</i>)	1.5 to 2.0 L/ha. Use the higher rate if there is a history of high disease pressures in the field or storage facility.	
	Suppression of Blue Mould (<i>Penicillium</i> <i>expansum</i>)		
Grape	Botrytis Bunch Rot (Botrytis cinerea)	IMPALA FUNGICIDE applied alone. Apply IMPALA FUNGICIDE at 2.0 L/ha. Ensure resistance management recommendations for <i>Botrytis</i> are followed in Section 9.	Begin applications at early bloom if needed then follow with applications from berry touch to bunch closure. An application can also be made from fruit ripening through to harvest during frequent wet conditions (conducive to infection) or when symptoms of infection are evident. Thorough coverage of bunches is essential. Applications must be made a minimum of 7 days apart. Apply a maximum of 3 applications per growing season. PHI of 7 days. Apply by ground only.
Gooseberry	Botrytis Grey Mould (<i>Botrytis</i> <i>cinerea</i>)	IMPALA FUNGICIDE applied alone. Apply IMPALA FUNGICIDE at 2.0 L/ha. Ensure resistance management recommendations for <i>Botrytis</i> are followed in Section 9.	Begin fungicide applications preventatively. Make first application at early flowering and repeat applications as required at 7-10 day intervals. Apply maximum of 3 applications per growing season. Ensure resistance management recommendations for <i>Botrytis</i> are followed in Section 9. PHI: 7 days Apply by ground only.
Highbush Blueberry Raspberry	Botrytis Grey Mould (<i>Botrytis</i> <i>cinerea</i>)	IMPALA FUNGICIDE applied alone. Apply IMPALA FUNGICIDE at 2.0 L/ha. Ensure resistance management recommendations for <i>Botrytis</i> are followed in Section 9	Begin fungicide applications preventatively. Make first application at early flowering and repeat applications as required at 7-10 day intervals. Apply maximum of 2 applications per growing season. Ensure resistance management recommendations for <i>Botrytis</i> are followed in Section 9. PHI: 0 days Apply by ground only.

Strawberry	Botrytis Grey	IMPALA FUNGICIDE applied	Make first application at the white bud
Lowbush	Mould	alone.	stage (prebloom) and repeat applications as
Blueberry	(Botrytis	Apply IMPALA FUNGICIDE	required at 7-10 day intervals.
	cinerea)	at 2.0 L/ha.	Apply a maximum of 3 applications per
		Ensure resistance management	growing season.
		recommendations for Botrytis are	PHI of 1 day.
		followed in Section 9.	Apply by ground only.

CROP	DISEASE	RATE	APPLICATION DIRECTIONS
UNOF	CONTROLLE	KAIL	AFFLICATION DIRECTIONS
	DOR		
	SUPPRESSED		
Potato	Early Blight	IMPALA FUNGICIDE applied	Apply when plants are 15-20 cm high or
-	(Alternaria	in tank mixture with BRAVO	when environmental conditions are
	solani)	<u>ZN.</u>	conducive to disease development.
	-		Repeat applications at 7-14 day intervals or
		Apply IMPALA FUNGICIDE	as necessary to maintain disease control. If
		at 750 mL/ha plus BRAVO ZN	severe disease conditions exist, use the 7
		according to BRAVO ZN label	day interval. Minimum spray interval is 7
		directions.	days. Ensure that the area to be treated is
			covered uniformly.
			Apply a maximum of 3 applications per
			growing season.
			PHI of 7 days.
			Apply by ground or air.
Field Tomato	Early blight		Apply only in tank mixture with Bravo ZN.
	(Alternaria		Apply when plants are 15-20 cm high or
	solani)		when environmental conditions are
			conducive to disease development. Repeat
	Botrytis		applications at 7-14 day intervals or as
	Grey Mould		necessary to maintain disease control. If
	(Botrytis		severe disease conditions exist, use the 7
	cinerea)		day interval. Minimum spray interval is 7
			days. Ensure that the area to be treated is
			covered uniformly.
			Do not apply more than 3.75 L of
			IMPALA FUNGICIDE per hectare per growing season. Refer to BRAVO ZN
			label for maximum number of applications
			per year in field tomatoes.
			PHI of 1 day.
			Apply by ground only.
Crop Group	Botrytis Leaf	IMPALA FUNGICIDE applied	Begin applications prior to onset of disease
3-07 (Bulb	Blight,	alone.	which typically occur in humid weather or
Vegetables)*	(B. squamosa,	Apply IMPALA FUNGICIDE	when rains and heavy dews occur,
8	B. cinerea)	at 2.0 L/ha.	approximately early to after mid-June.
	,		Continue applications on a 7 to 14 day
	Purple blotch	For botrytis leaf blight on onion	spray interval.
	(Alternaria	only:	Do not apply more than 6.0 L of IMPALA
	porri)	IMPALA FUNGICIDE in Tank	FUNGICIDE per hectare per growing
		Mix with Bravo ZN.	season.
	Neck Rot	Apply IMPALA FUNGICIDE	PHI of 7 days.
	(B. allii)	at 1.0 L/ha (400 g a.i./ha) tank	Apply by ground only.
		mix with BRAVO ZN according	
		to BRAVO ZN label directions.	
*CROP SUBC	ROUP 3-07A: H	Bulb Onion Subgroup:	
	tato, bulb; Chines		
· ·	reat-headed, bulb;	serpent, bulb)	
Shallot (bulb)			
Daylily (bulb) Fritillaria (bulb)			

CD OD	DIGELGE			
CROP	DISEASE	RATE	APPLICATION DIRECTIONS	
	CONTROLLE			
	D OR			
	SUPPRESSED			
Lily (bulb)	·			
and cultivars,	varieties, and/or hy	brids of these.		
,	, j			
CROP SUBGI	ROUP 3-07B: Gree	n Onion Subgroup:		
		5 1		
Onion (green:	Welsh tons Beltsy	ville bunching; fresh; macrostem; tr	ree tons)	
	eaves; Chinese, fres			
Shallot (fresh		ii ieaves)		
· · · · · · · · · · · · · · · · · · ·	,			
Fritillaria (fres	sn leaves)			
Leek				
Lady's leek				
Wild leek				
Elegans hosta				
Kurrat				
and cultivars,	varieties, and/or hy	brids of these.		

MINOR USES

NOTE TO USER: READ THE FOLLOWING BEFORE USING THIS PRODUCT FOR THE INDICATED SPECIAL USE APPLICATIONS (BELOW): The DIRECTIONS FOR USE for the uses described in this section of the label were developed by persons other than Sharda Cropchem Limited under the User Requested Minor Use Label Expansion program. For these uses, Sharda Cropchem Limited 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.

FIELD CROPS:

FIELD CROFS:			
CROP	DISEASE	RATE	APPLICATION DIRECTIONS
	CONTROLLE		
	D OR		
	SUPPRESSED		
Ginseng	Alternaria	2.0 L/ha	For optimum results, begin applications as soon as crop
	blight		and/or environmental conditions become favorable for
	(Alternaria		disease development. Applications should be made on a
	panax)		minimum 7 day interval depending upon disease
	-		conditions.
	Botrytis		Apply maximum of 3 applications. For Botrytis blight
	blight		(<i>Botrytis cinerea</i>) a maximum of 2 to 3 applications can
	(Botrytis		be made depending on resistance management
	cinerea)		recommendations detailed in Section 9. Ensure
			resistance management recommendations are followed.
			Do not apply within 30 days of harvest.
			Apply by ground only.

Section 9: Resistance Management

RESISTANCE MANAGEMENT RECOMMENDATIONS:

For resistance management, IMPALA FUNGICIDE contains a Group 9 fungicide. Any fungal population may contain individuals naturally resistant to IMPALA FUNGICIDE and other Group 9 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 IMPALA FUNGICIDE or other Group 9 fungicides with different groups that control the same pathogens.
- Use tank mixtures with fungicides from a different group that is effective on the target pathogen when such use is permitted.
- For *Botrytis* control, follow the Fungicide Resistance Action Committee (FRAC) guidelines:
 - Always alternate applications of IMPALA FUNGICIDE or other Group 9 fungicides with fungicides having a different mode of action (different Group).
 - In situations where 3 to 6 *Botrytis* treatments are made per crop and season, a maximum of 2 applications of IMPALA FUNGICIDE or any other Group 9 fungicide are recommended. In situations where 7 or more *Botrytis* treatments are made per crop and season, a maximum of 3 applications of IMPALA FUNGICIDE or any other Group 9 fungicide are recommended.
- Avoid consecutive applications of IMPALA FUNGICIDE or other Group 9 fungicides in a season. Alternate applications with fungicides having a different mode of action.
- Fungicide use should be based on an integrated pest 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 Sharda Cropchem Limited if reduced sensitivity of the pathogen to IMPALA 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 Sharda Cropchem Limited at <u>1-844-810-5720</u>.

Section 10: Mixing Instructions

MIXING INSTRUCTIONS:

IMPALA FUNGICIDE must be applied with properly calibrated, clean equipment. Prior to adding IMPALA FUNGICIDE to the spray tank, ensure that the spray tank is thoroughly clean.

- Add one-half of the required amount of water to the spray or mixing tank and start agitation.
- Add the required quantity of IMPALA FUNGICIDE to the water and complete filling with water to the required total volume.
- Maintain agitation throughout mixing and spraying.
- When tank-mixing with BRAVO ZN follow use directions according to the BRAVO ZN Label.

Section 11: Pre-harvest Intervals (PHI)

-	Pre-harvest Intervals:	
	Apple, crabapple, mayhaw	14 days
	Pear, oriental pear, quince	72 days
	Bulb vegetables	7 days
	Ginseng	30 days
	Grape, gooseberry	7 days
	Potato	7 days
	Strawberry, lowbush blueberry	1 day
	Highbush blueberry, raspberry	0 days
	Tomato (field)	1 day

Section 12: Notices

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.

All other products mentioned are trademarks of their respective companies.