



Bayer CropScience

SCALA® SC FUNGICIDE

GROUP	9	FUNGICIDE
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NET CONTENTS:
500 mL to BULK

For control 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



CAUTION

POISON



CAUTION – SKIN IRRITANT

REGISTRATION NUMBER: 28011 PEST CONTROL PRODUCTS ACT

GUARANTEE:

Pyrimethanil 400 g/L

Contains 1,2-benzisothiazolin-3-one at 0.035% and 5-chloro-2-methyl-4-isothiazolin-3-one at 0.0009% and 2-methyl-4-isothiazolin-3-one at 0.0003% as preservatives.

Warning, contains the allergen sulfites.

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

For product information, call: 1-888-283-6847

Bayer CropScience Inc.
Suite 200, 160 Quarry Park Blvd S.E.
Calgary, Alberta T2C 3G3

In case of spills, poisoning or fire, telephone emergency response number 1-800-334-7577 (24 hours a day)

SCALA[®] SC FUNGICIDE

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GENERAL INFORMATION

Section 1: The Product

THE PRODUCT:

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

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

SAFETY AND HANDLING

Section 2: Precautions, Protective Clothing and Equipment, and Re-entry Restriction.

PRECAUTIONS:

- KEEP OUT OF REACH OF CHILDREN
- Harmful if inhaled. Avoid inhaling/breathing sprays.
- May irritate the skin. Avoid contact with skin, eyes and clothing.
- When applied as a tank-mix combination, read and observe all label directions, including rates, restrictions, and grazing limitations for each product used in the tank-mix. Follow the more stringent label precautionary measures for mixing, loading and applying stated on both labels.
- 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 and you require information regarding Maximum Residue Limits for an importing country, please contact Bayer CropScience Canada Inc. at 1-888-283-6847 or www.bayercropscience.ca.

PROTECTIVE CLOTHING AND EQUIPMENT:

- During mixing, loading, clean-up and repair activities, workers must wear long pants, long-sleeved shirts, boots, chemical resistant gloves and safety goggles or a face shield.
- Applicators must wear long pants, long-sleeved shirts and boots.

RE-ENTRY RESTRICTION:

- DO NOT re-enter treated fields within 12 hours of application.
- For pomefruits and bulb vegetables, DO NOT enter, or allow worker reentry, within 24 hours after application to carry out hand thinning activities.
- For grapes, DO NOT enter, or allow worker entry, within 24 hours after application to carry out cane turning, girdling, training, tying, pruning, thinning and leaf pulling activities.

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 Bayer's Medical Information Services, Toll-Free: 1-800-334-7577.

Section 4: Environmental Hazards

ENVIRONMENTAL HAZARDS:

- TOXIC to aquatic organisms. Observe 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 of this product 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.
- 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 1-800-334-7577.

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 empty 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 use 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. 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 cleanup 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 SCALA SC FUNGICIDE in a minimum spray volume of 1000 L/ha.

Vegetable Crops – Apply SCALA SC 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 SCALA SC 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.

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) 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 at the application site as measured outside of the treatment area on the upwind side.

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 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 SCALA SC 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 1-888-238-6847 or obtain technical advice from the distributor or your provincial agricultural representative.

Buffer zones:

Use of the following spray methods or equipment **DO NOT** require a buffer zone: hand-held or backpack sprayer and spot treatment. The 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		Buffer Zones (metres) Required for the Protection of Freshwater Habitat of Depths:	
			Less than 1 m	Greater than 1 m
Field sprayer	Potato, strawberry, bulb vegetables, field tomatoes, ginseng, lowbush blueberries		1	1
Airblast	Pomefruits	Early growth stage	15	1
		Late growth stage	5	1
	Grape, Gooseberries, Raspberries and Highbush Blueberries	Early growth stage	20	1
		Late growth stage	10	1
Aerial	Potato	Fixed and rotary wing	10	1

For tank mixes, consult the labels of the tank-mix partners and observe the largest (most restrictive) 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 SCALA SC FUNGICIDE. Do not rotate to other crops for 30 days following the last application of SCALA SC FUNGICIDE.

Section 8: Crop, Disease, Rate, Timing

CROP	DISEASE	RATE	TIMING
Pome fruits Apple Crabapple Mayhaw Pear Oriental pear Quince	Pear scab (<i>Venturia pirina</i>) Apple scab (<i>Venturia inaequalis</i>)	<u>SCALA SC FUNGICIDE applied alone.</u> Apply SCALA SC FUNGICIDE at 0.75 to 1.0 L/ha. Use the higher rate under high disease pressures. Ensure this rate is maintained in concentrate or dilute spray applications. Apply a maximum of 4 applications for scab alone.	Apply early in the season at 7-12 day intervals, from green tip to petal drop. For scab control, do not apply post-bloom. PHI of 14 days for apple, crabapple and mayhaw. PHI of 72 days for pear, oriental pear and quince. Apply by ground only.
Apple	Apple scab (<i>Venturia inaequalis</i>)	<u>SCALA SC FUNGICIDE applied in tank mixture with DITHANE DG Rainshield NT Fungicide:</u> Apply SCALA SC FUNGICIDE 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.	Apply early in the season at 7-12 day intervals, from green tip to petal drop. For scab control, do not apply post-bloom. PHI of 45 days. Apply by ground only.
Apple	Storage diseases: Control of Botrytis Suppression of Penicillium	<u>SCALA SC FUNGICIDE applied alone.</u> Apply a single application of SCALA SC FUNGICIDE at 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.	Apply 2 weeks before harvest. PHI of 14 days. Apply by ground only.
Grape	Botrytis Bunch Rot (<i>Botrytis cinerea</i>)	<u>SCALA SC FUNGICIDE applied alone.</u> Apply SCALA SC 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 cinerea</i>)	SCALA SC FUNGICIDE applied alone. Apply SCALA SC 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 cinerea</i>)	<u>SCALA SC FUNGICIDE applied alone.</u> Apply SCALA SC 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 Lowbush Blueberry	Botrytis Grey Mould (<i>Botrytis cinerea</i>)	<u>SCALA SC FUNGICIDE applied alone.</u> Apply SCALA SC FUNGICIDE at 2.0 L/ha. Ensure resistance management recommendations for <i>Botrytis</i> are followed in Section 9.	Make first application at the white bud stage (prebloom) and repeat applications as required at 7-10 day intervals. Apply a maximum of 3 applications per growing season. PHI of 1 day. Apply by ground only.

Potato	Early Blight	<p><u>SCALA SC FUNGICIDE applied in tank mixture with BRAVO 500.</u></p> <p><u>Apply SCALA SC FUNGICIDE at 750 mL/ha plus BRAVO 500 according to BRAVO 500 label directions.</u></p>	<p>Apply when plants are 15-20 cm high or when environmental conditions are conducive to disease development. Repeat applications at 7-14 day intervals or as necessary to maintain disease control. If severe disease conditions exist, use the 7 day interval. Minimum spray interval is 7 days. Ensure that the area to be treated is covered uniformly.</p> <p>Apply a maximum of 6 applications per growing season.</p> <p>PHI of 7 days.</p> <p>Apply by ground or air.</p>
Field Tomato	<p>Early blight</p> <p>Grey Mould (<i>Botrytis cinerea</i>)</p>		<p>Apply only in tank mixture with Bravo 500. Apply when plants are 15-20 cm high or when environmental conditions are conducive to disease development. Repeat applications at 7-14 day intervals or as necessary to maintain disease control. If severe disease conditions exist, use the 7 day interval. Minimum spray interval is 7 days. Ensure that the area to be treated is covered uniformly.</p> <p>Do not apply more than 3.75 L of SCALA SC FUNGICIDE per hectare per growing season.</p> <p>PHI of 1 day.</p> <p>Apply by ground only.</p>
Crop Group 3-07 (Bulb Vegetables)*	<p>Botrytis Leaf Blight, (<i>B. squamosa</i>, <i>B. cinerea</i>)</p> <p>Purple blotch (<i>Alternaria porri</i>)</p> <p>Neck Rot (<i>B. allii</i>)</p>	<p><u>SCALA SC FUNGICIDE applied alone.</u></p> <p>Apply SCALA SC FUNGICIDE at 2.0 L/ha.</p> <p>For botrytis leaf blight on onion only:</p> <p><u>SCALA SC FUNGICIDE in Tank Mix with Bravo 500.</u></p> <p>Apply SCALA SC FUNGICIDE at 1.0 L/ha (400 g a.i./ha) tank mix with BRAVO 500 according to BRAVO 500 label directions.</p>	<p>Begin applications prior to onset of disease which typically occur in humid weather or when rains and heavy dews occur, approximately early to after mid-June. Continue applications on a 7 to 14 day spray interval.</p> <p>Do not apply more than 6.0 L of SCALA SC FUNGICIDE per hectare per growing season.</p> <p>PHI of 7 days.</p> <p>Apply by ground only.</p>
<p>*CROP SUBGROUP 3-07A: Bulb Onion Subgroup:</p> <p>Onion (bulb; potato, bulb; Chinese, bulb; pearl)</p> <p>Garlic (bulb; Great-headed, bulb; serpent, bulb)</p> <p>Shallot (bulb)</p> <p>Daylily (bulb)</p> <p>Fritillaria (bulb)</p> <p>Lily (bulb)</p>			

and cultivars, varieties, and/or hybrids of these.

CROP SUBGROUP 3-07B: Green Onion Subgroup:

Onion (green; Welsh, tops; Beltsville bunching; fresh; macrostem; tree, tops)

Chive (fresh leaves; Chinese, fresh leaves)

Shallot (fresh leaves)

Fritillaria (fresh leaves)

Leek

Lady's leek

Wild leek

Elegans hosta

Kurrat

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

FIELD CROPS:

CROP	DISEASE	RATE	TIMING
Ginseng	Alternaria blight (<i>Alternaria panax</i>)	2.0 L/ha	For optimum results, begin applications as soon as crop and/or environmental conditions become favorable for disease development. Applications should be made on a minimum 7 day interval depending upon disease conditions.
	Botrytis blight (<i>Botrytis cinerea</i>)		Apply maximum of 3 applications. For <i>Botrytis cinerea</i> a maximum of 2 to 3 applications can be made depending on resistance management 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, please note that SCALA SC FUNGICIDE contains a Group 9 fungicide. Any fungal population may contain individuals naturally resistant to SCALA SC FUNGICIDE and other Group 9 fungicides. A gradual or total loss of disease 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 SCALA SC FUNGICIDE or other Group 9 fungicides with different groups that control the same pathogens. Use tank mixtures with fungicides from a different group when such use is permitted.
- For *Botrytis* control, follow the Fungicide Resistance Action Committee (FRAC) guidelines:
 - Always alternate applications of SCALA SC 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 SCALA SC 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 SCALA SC FUNGICIDE or any other Group 9 fungicide are recommended.
- Avoid consecutive applications of SCALA SC 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 IPM program that includes scouting, historical information related to pesticide use and crop rotation and considers cultural, biological and other chemical control practices.
- Monitor treated fungal populations for resistance development. 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 a Bayer CropScience representative at 1-888-283-6847 or at www.bayercropscience.com.

Section 10: Mixing Instructions

MIXING INSTRUCTIONS:

SCALA SC FUNGICIDE must be applied with properly calibrated, clean equipment. Prior to adding SCALA SC 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 SCALA SC 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 500 follow use directions according to the BRAVO 500 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. The user assumes the risk to persons or property that arises from any such use of this product.

SCALA is a registered trademark of Bayer.

All other products mentioned are trademarks of their respective companies.