GROUP 3 FUNGICIDE

SORATELTM

Foliar Fungicide

Emulsifiable Concentrate

For Control or Suppression of Listed Diseases in Barley, Borage, *Brassica carinata*, Bushberries, Canola, Chickpeas, Crambe, Corn, Field Peas, Flax (Linseed), Lentils, Low Growing Berries except Strawberries, Oats, Oriental Mustard, Peanut, Rapeseed, Safflower, Soybean, Sugar Beet, Sunflower, Wheat and Certain Other Small Grains.

COMMERCIAL (AGRICULTURAL)



EYE AND SKIN IRRITANT POTENTIAL SKIN SENSITIZER

REGISTRATION NUMBER: 34155
PEST CONTROL PRODUCTS ACT

ACTIVE INGREDIENT:

Prothioconazole.....250 g/L

READ THE LABEL BEFORE USING KEEP OUT OF REACH OF CHILDREN

ADAMA Agricultural Solutions Canada Ltd. 300 – 191 Lombard Ave. Winnipeg, Manitoba R3B 0X1 1-855-264-6262

For emergency medical help and health/safety inquiries call ProPharma Group at 1.877.250.9291 (24 hours a day)

For spill, leak or fire call INFOTRAC at 1.800.535.5053 (24 hours a day)

NET CONTENTS: 1 L to BULK

GENERAL INFORMATION

SORATEL is a broad-spectrum systemic fungicide for the control or suppression of listed *Ascomycetes*, *Basidiomycetes* and *Deuteromycetes* diseases on barley, borage, *Brassica carinata*, bushberries, canola, chickpeas, crambe, corn, field peas, flax (linseed), lentils, low growing berries (except strawberries), oats, Oriental mustard, peanut, rapeseed, safflower, soybean, sugar beet, sunflower, wheat and certain other small grains.

PRECAUTIONS:

KEEP OUT OF REACH OF CHILDREN. May irritate eyes. Avoid contact with eyes. May irritate the skin. Avoid contact with skin. Potential skin sensitizer. Harmful if swallowed. Avoid contact with skin, eyes, and clothing. 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. Apply only to agricultural crops 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. 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 ADAMA Agricultural Solutions Canada Ltd.at 1-855-264-6262 or www.adama.com.

DO NOT enter or allow worker entry into treated areas during the intervals specified in the following table:

Crop	Postapplication Activity	REI and/or PHI
Low-Growing Berries	Harvesting	45 days
(except strawberries),	All other activities	24 hours
Safflower, Sunflower		
Canola, Rapeseed,	Harvesting	36 days
Oriental Mustard,		
Brassica carinata, Flax	All other activities	24 hours
(Linseed), Crambe,		
Borage		
Wheat (spring, durum	Harvesting	30 days
and winter), Barley, Oats	All other activities	24 hours
Soybean	Harvesting	20 days
	All other activities	24 hours
Sweet Corn	Hand harvesting	20 days
	Mechanical harvesting	14 days
	All other activities	24 hours
Seed Corn	Detasseling	20 days
	Harvesting	14 days
	All other activities	24 hours
Field Corn and Popcorn,	Harvesting	14 days
Peanut	All other activities	24 hours
Bushberry	Harvesting	7 days
	Hand line irrigation	3 days
	All other activities	24 hours
Chickpea, Lentils, Field	Harvesting	7 days
Peas, Sugar Beet	All other activities	24 hours

PROTECTIVE CLOTHING AND ENGINEERING CONTROLS:

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

When handing 272 L or more of product per day using an open-cab groundboom equipment, applicators must also wear a respirator with a NIOSH-approved organic-vapour-removing cartridge (with a prefilter) approved for pesticides, or a NIOSH-approved canister approved for pesticides.

FIRST AID:

IF SWALLOWED: Call a poison control centre or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by a poison control centre or doctor. Have person sip a glass of water if able to swallow. 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 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.

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 and non-target terrestrial plants. Observe spray buffer zones specified under DIRECTIONS FOR USE.

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 filter strip between the treated area and the edge of the water body.

STORAGE

- Store this product away from food or feed.
- Keep away from fire or open flame or other sources of heat.
- Do not store at temperatures 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 in original container during storage.
- In case of fire, leaking or damaged containers, call toll free 1-800-535-5053.

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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).

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.

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.

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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Booklet

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NET CONTENTS: 1 LITRE to BULK

SORATEL

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GENERAL INFORMATION

Section 1: The Product

SORATEL is a broad-spectrum systemic fungicide for the control or suppression of listed *Ascomycetes*, *Basidiomycetes* and *Deuteromycetes* diseases on barley, borage, *Brassica carinata*, bushberries, canola, chickpeas, crambe, corn, field peas, flax (linseed), lentils, low growing berries (except strawberries), oats, Oriental mustard, peanut, rapeseed, safflower, soybean, sugar beet, sunflower, wheat and certain other small grains.

SAFETY AND HANDLING

Section 2: Precautions, Protective Clothing & Engineering Controls, and Restricted Entry Interval.

PRECAUTIONS:

KEEP OUT OF REACH OF CHILDREN. May irritate eyes. Avoid contact with eyes. May irritate the skin. Avoid contact with skin. Potential skin sensitizer. Harmful if swallowed. Avoid contact with skin, eyes, and clothing. 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. Apply only to agricultural crops 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. 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 ADAMA Agricultural Solutions Canada Ltd.at 1-855-264-6262 or www.adama.com

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Crop	Postapplication Activity	REI and/or PHI
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(except strawberries),	All other activities	24 hours
Safflower, Sunflower		
Canola, Rapeseed,	Harvesting	36 days
Oriental Mustard,		
Brassica carinata, Flax	All other activities	24 hours
(Linseed), Crambe,		
Borage		
Wheat (spring, durum	Harvesting	30 days
and winter), Barley, Oats	All other activities	24 hours
Soybean	Harvesting	20 days
	All other activities	24 hours
Sweet Corn	Hand harvesting	20 days
	Mechanical harvesting	14 days
	All other activities	24 hours
Seed Corn	Detasseling	20 days

	Harvesting	14 days
	All other activities	24 hours
Field Corn and Popcorn,	Harvesting	14 days
Peanut	All other activities	24 hours
Bushberry	Harvesting	7 days
	Hand line irrigation	3 days
	All other activities	24 hours
Chickpea, Lentils, Field	Harvesting	7 days
Peas, Sugar Beet	All other activities	24 hours

PROTECTIVE CLOTHING AND ENGINEERING CONTROLS:

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

When handing 272 L or more of product per day using an open-cab groundboom equipment, applicators must also wear a respirator with a NIOSH-approved organic-vapour-removing cartridge (with a prefilter) approved for pesticides, or a NIOSH-approved canister approved for pesticides.

Section 3: First Aid and Toxicological Information

FIRST AID:

IF SWALLOWED: Call a poison control centre or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by a poison control centre or doctor. Have person sip a glass of water if able to swallow. 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.

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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.

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

TOXICOLOGICAL INFORMATION

Treat symptomatically.

Section 4: ENVIRONMENTAL PRECAUTIONS

TOXIC to aquatic organisms and non-target terrestrial plants. Observe spray buffer zones specified under DIRECTIONS FOR USE.

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 filter strip between the treated area and the edge of the water body.

Section 5: STORAGE

- Store this product away from food or feed.
- Keep away from fire or open flame or other sources of heat.
- Do not store at temperatures 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 in original container during storage.
- In case of fire, leaking or damaged containers, call toll free 1-800-535-5053.

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).

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.

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.

DIRECTIONS FOR USE

As this product is not registered for the control of pests in aquatic systems, **DO NOT** use to control aquatic pests.

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

<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 S572.1) 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 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.

Tank Mixtures

This product may be tank mixed with a fertilizer, a supplement, or with registered pest control products, whose labels also allow tank mixing, provided the entirety of both labels, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones are followed for each product. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed. Do not tank mix products containing the same active ingredient unless specifically listed on this label.

In some cases, tank mixing pest control products can result in reduced pesticide efficacy or increased host crop injury. The user should contact ADAMA Agricultural Solutions Canada Ltd. at 1-855-264-6262 for information before applying any tank mix that is not specifically recommended on this label.

Spray Buffer Zones:

A spray buffer zone is **NOT** required for: uses with hand-held application equipment permitted on this label.

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

			Spray Buffer Z	Zones (metres) Re	quired for the Pro	tection of:
Method of	Cron		Aqua	atic Habitat of De	pths:	Terrestrial
application			Less than 1 m	1-3 m	Greater than 3 m	Habitat
Field sprayer	All listed crops		2	1	0	0
Airblast sprayer	Bushberries	Early growth stage	25	15	4	1
		Late growth stage	15	5	2	1
Aerial (fixed and rotary	Canola, Oriental mustard, rapeseed, <i>Brassica carinata</i>		20	10	1	10
wing)	Flax (linseed), crambe, borage, soybeans		10	0	0	0
	Corn, safflower, sunflower		15	5	0	0
	Oats Wheat, barley Lentils, field peas		20	10	0	0
			25	10	0	10
			30	10	0	15
	Sugarbeets		45	15	4	15
	Chickpeas	_	50	15	5	15

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.

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 Pest Management Regulatory Agency web site.

Section 7: Crop, Disease, Rate, Timing

			Certain Other Small Grains)
CROP	DISEASE	RATE	TIMING
Barley	For suppression of	Apply	Fusarium head blight outbreaks in barley occur when the
	Fusarium Head	SORATEL	weather is warm and wet at ear emergence. The
	Blight (Fusarium	once, at 0.6-0.8	application of SORATEL for protection against Fusarium
	spp.), or Scab	L/ha (150-200 g	head blight (scab) should be considered when these
		a.i./ha)	environmental conditions are forecasted for this stage of
			barley development.
			Timing of application is critical: For optimum
			suppression of Fusarium head blight, apply SORATEL as
			a preventative spray within the time period when 70 to
			100% of the barley main stem heads are fully emerged, to
			3 days after full head emergence.
			Application of the 0.8 L/ha rate is suggested in situations
			where disease pressure is expected to be high. Such
			situations may occur when prolonged periods of warm
			wet weather are forecast during barley ear emergence,
			when barley is grown in a crop rotation that has contained
			corn or when susceptible cultivars are grown.
			Use of the 0.8 L/ha rate will typically provide highest
			levels of mycotoxin reduction.
			Spray Coverage is essential for optimum efficacy:
			Spray equipment must be set up to provide good coverage
			to barley heads. To achieve thorough barley head
			coverage using ground application equipment, it is
			recommended to use forward and backward mounted
			nozzles or nozzles that have a two-directional spray.
			Nozzles should be operated within the spray pressure
			recommendations suggested by the manufacturer.
			NB. A tank mixture of SORATEL + ORIUS 430 SC for
			suppression of Fusarium Head Blight can be used instead
			of using SORATEL alone. Refer to SORATEL TANK
			MIX with ORIUS 430 SC FOLIAR FUNGICIDE for
		<u> </u>	WHEAT and BARLEY below.
	For control of:	Apply	Apply SORATEL as a preventive foliar spray when the
		SORATEL, at	earliest disease symptoms appear on the leaves and stems.
	Net Blotch	0.4-0.6 L/ha	Barley fields should be observed closely for early disease
	(Pyrenophora	(100-150 g	symptoms, particularly when susceptible varieties are
	teres);	a.i./ha)	planted and/or under prolonged conditions favorable for
	Scald		disease development.
	(Rhynchosporium		
	secalis)		
	Spot Blotch		
	(Cochliobolus		

	sativus)		
			RATEL, with a minimum 7 day application interval, may be
		Do not apply within	30 days of harvest. Applications may be made by ground
	ay equipment.	T	
Wheat (spring, durum and winter)	For suppression of Fusarium Head Blight (Fusarium spp.), or Scab For control of Glume blotch (Stagonospora nodorum)	Apply SORATEL once, at 0.6-0.8 L/ha (150-200 g a.i./ha)	Fusarium head blight outbreaks in wheat occur when the weather is warm and wet at head emergence and flowering. The application of SORATEL for protection against Fusarium head blight (scab) should be considered when these environmental conditions are forecasted for this stage of wheat development. Timing of application is critical: For optimum suppression of Fusarium head blight or control of Glume blotch, apply SORATEL within the time period from when at least 75% of the wheat heads on the main stem are fully emerged to when 50% of the heads on the main stem are in flower. Application of the 0.8 L/ha rate is suggested in situations where disease pressure is expected to be high. Such situations may occur when prolonged periods of warm, wet weather are forecast during anthesis, when wheat is grown in a crop rotation that has contained corn or when more susceptible cultivars or wheat types (i.e. durum) are grown. Use of the 0.8 L/ha rate will typically provide highest levels of mycotoxin reduction. Spray Coverage is essential for optimum efficacy: Spray equipment must be set up to provide good coverage to wheat heads. To achieve thorough wheat head coverage using ground application equipment, it is recommended to use forward and backward mounted nozzles or nozzles that have a two-directional spray. Nozzles should be operated within the spray pressure recommendations suggested by the manufacturer. NB. A tank mixture of SORATEL + ORIUS 430 SC for suppression of Fusarium Head Blight can be used instead of using SORATEL alone. Refer to SORATEL TANK MIX with ORIUS 430 SC FOLIAR FUNGICIDE for
	For control of:	Apply SORATEL at	WHEAT and BARLEY below. Apply SORATEL as a preventive foliar spray when the earliest disease symptoms appear on the leaves and stems.
	Speckled Leaf Blotch (Septoria tritici); Tan spot (Pyrenophora tritici-repentis); Leaf Rust (Puccinia recondita)	0.6 L/ha (150 g a.i./ha)	Wheat fields should be observed closely for early disease symptoms, particularly when susceptible varieties are planted and/or under prolonged conditions favorable for disease development.
applied per v	ximum of 2 application wheat crop per year. I		RATEL, with a minimum 7 day application interval, may be 30 days of harvest. Applications may be made by ground or
aerial spray		A1	Apple CODATEL
Oats	For control of	Apply SORATEL at	Apply SORATEL as a preventive foliar spray when the
	Crown Rust	SONATEL at	earliest disease symptoms appear on the leaves and stems.

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	(Puccinia coronata)	0.6 L/ha (150 g a.i./ha)	Fields should be observed closely for early disease symptoms, particularly when susceptible varieties are planted and/or under prolonged conditions favorable for disease development.
	oat crop per year. Do		RATEL, with a minimum 7 day application interval, may be days of harvest. Applications may be made by ground or
Pearl millet, Proso millet, Rye, Triticale, Teosinte, Buckwheat	For suppression of: Fusarium Head Blight (Fusarium spp.), or Scab – except buckwheat For control of: Rust (Puccinia spp.)	Apply SORATEL at 0.6-0.8 L/ha (150-200 g a.i./ha)	Apply SORATEL as a preventive foliar spray when the earliest disease symptoms appear on the leaves and stems. Fields should be observed closely for early disease symptoms, particularly when susceptible varieties are planted and/or under prolonged conditions favorable for disease development.

Note: A maximum of 2 applications (1.4 L/ha) of SORATEL, with a minimum 7 day application interval, may be applied per year. Do not apply within 30 days of harvest. Applications may be made by ground equipment only.

SORATEL TANK MIX with ORIUS 430 SC FOLIAR FUNGICIDE for WHEAT and BARLEY

(spring, durum and winter), (Fusarium Head Blight (Fusarium spp.) ORIUS 430 SC Foliar Fungicide at 0.232 L/ha (100 g a.i./ha) Plus a Non-ionic Surfactant (NIS) (e.g. ADAMA Adjuvant 80) at 0.125% v/v Timing of application is critical: For optimum suppression of Fusarium Head Blight, apply the tank mix of SORATEL + ORIUS 430 SC as a preventative spray in: **WHEAT:* within the time period from when at least 75% of the wheat heads on the main stem are fully emerged to when 50% of the heads on the main stem are fully emerged, to 3 days after full head emergence and flowering. The application of SORATEL + ORIUS 430 SC at the specified application against Fusarium Head Blight (Scab) should be considered when these environmental conditions are forecasted for this stage of wheat and barley development. **Timing of application is critical:* For optimum suppression of Fusarium Head Blight, apply the tank mix of SORATEL + ORIUS 430 SC as a preventative spray in: **WHEAT:* within the time period from when at least 75% of the wheat heads on the main stem are fully emerged, to 3 days after full head emergence and 75% of the wheat heads on the main stem are fully emerged to when 50% of the heads on the main stem are fully emerged to when 50% of the heads on the main stem are fully emerged to when 50% of the heads on the main stem are fully emerged to when 50% of the heads on the main stem are in flower. Apply by ground application equipment ONLY at the	CROP	DISEASE	RATE	430 SC FOLIAR FUNGICIDE TIMING
hectare.	Wheat (spring, durum and winter), Barley	Suppression of Fusarium Head Blight (Fusarium	L/ha (100 g a.i./ha) plus ORIUS 430 SC Foliar Fungicide at 0.232 L/ha (100 g a.i./ha) plus a Non-ionic Surfactant (NIS) (e.g. ADAMA Adjuvant 80) at	occur when the weather is warm and wet at head emergence and flowering. The application of SORATEL + ORIUS 430 SC at the specified application rate for protection against Fusarium Head Blight (Scab) should be considered when these environmental conditions are forecasted for this stage of wheat and barley development. Timing of application is critical: For optimum suppression of Fusarium Head Blight, apply the tank mix of SORATEL + ORIUS 430 SC as a preventative spray in: • WHEAT: within the time period from when at least 75% of the wheat heads on the main stem are fully emerged to when 50% of the heads on the main stem are in flower. • BARLEY: within the time period from when at least 70 to 100% of the barley main stem heads are fully emerged, to 3 days after full head emergence and 75% of the wheat heads on the main stem are fully emerged to when 50% of the heads on the main stem are in flower. Apply by ground application equipment ONLY at the specified dosage in a minimum of 100 L of water per

SC tank-mix described above may be applied per wheat or barley crop per year.

Pre-harvest Interval: Do not apply within 36 days of harvest.

<u>Grazing Interval:</u> Do not allow livestock to graze or feed green forage to livestock prior to 6 days after treatment. Straw cut after harvest may be fed or used for bedding.

Restricted Entry Interval: Do not enter treated fields for 12 hours after application.

OILSEED	OILSEED CROPS (Canola, Rapeseed, Oriental Mustard, Brassica carinata)			
CROP	DISEASE	RATE	TIMING	
Canola, Rapeseed, Oriental mustard, Brassica carinata	For control of Sclerotinia stem rot (Sclerotinia sclerotiorum)	Apply SORATEL at 0.6-0.7 L/ha (150-175 g a.i./ha)	Apply SORATEL when the crop is in the 20 - 50% bloom stage. Best protection will be achieved when the fungicide is applied prior to petals beginning to fall, and will allow for the maximum number of petals to be protected. The 0.6 L/ha rate is the recommended rate for most oilseed crops, however, the higher rate is recommended for fields with a	
			history of heavy disease pressure or for dense crop stands. Good spray coverage of the plants is essential. A second application at a rate of 0.6 L/ha may be applied 7-10 days later, up to full bloom, if disease persists or weather conditions are favorable for disease development.	
			When conditions favoring disease are severe, use the shorter interval.	

Note: Applications may be made by ground or aerial spray equipment. A maximum of two applications (1.3 L/ha) of SORATEL may be applied per crop year. Do not apply within 36 days of harvest.

DISEASE For control of Ascochyta blight (Ascochyta rabiei)	RATE Apply SORATEL at 0.6-0.8 L/ha (150-200 g a.i./ha)	Apply SORATEL at the first sign of disease. Apply the higher rate when conditions favour disease development, or when growing less disease resistant varieties.
Ascochyta blight (Ascochyta	11 *	Apply the higher rate when conditions favour disease development, or when growing less
		After the initial application, repeat applications may be made on 10-14 day intervals. A maximum of 2.4 L/ha of SORATEL may be applied per crop year for chickpeas.
		Maximum of three applications per year.
(suppression	Apply SORATEL at 0.6-0.8 L/ha (150-200 g a.i./ha)	Apply SORATEL at the beginning of flowering or at first sign of disease.
Peas) of Ascochyta blight (Ascochyta spp.)		After the initial application, one additional application may be made 10-14 days afterwards if conditions remain favourable for continued or increased disease development.
White mold (Sclerotinia sclerotiorum)		Apply the higher rate when conditions favour disease development, or when growing less disease resistant varieties. A maximum of 1.6 L/ha of SORATEL may be
(c F / t (s	only in Field Peas) of Ascochyta blight Ascochyta pp.) White mold Sclerotinia	suppression only in Field Peas) of Ascochyta olight Ascochyta ppp.) White mold Sclerotinia

			applied per crop year for lentils.	
			Maximum of two applications per year.	
Note: Applications may be made by ground or aerial spray equipment. Do not apply within 7 days of cutting or				
swathing of	f the crop.			

Soybean	Soybean					
CROP	DISEASE	RATE	TIMING			
Soybean	For control	Apply SORATEL at 0.4	Apply SORATEL when first symptoms of disease can			
	of:	L/ha (100 g a.i./ha)	be found or that the risk of infection is imminent.			
	Asian soybean rust (Phakopsora pachyrhizi)		Do not apply more than one application per season.			
	Frogeye leaf spot (Cercospora sojina)					
Note: The	Note: The application may be made by ground or aerial spray equipment. Do not apply within 20 days of harvest.					

Corn (field	Corn (field, sweet and popcorn)				
CROP	DISEASE	RATE	TIMING		
Corn (field, sweet and popcorn, including seed production)	For the control of Rusts (Puccinia sorghi, Puccinia polysora), Eyespot (Kabatiella zeae or Aureobasidium zeae), and Northern Blight (Setosphaeria turcica)	Apply SORATEL at 0.6 L/ha (150 g a.i./ha)	Apply SORATEL as a preventive foliar spray when the earliest disease symptoms appear on the leaves and stems. Fields should be observed closely for early disease symptoms, particularly under prolonged conditions favorable for disease development.		
	Provides control of all diseases listed above, plus the following: For the control of Grey Leaf Spot (Cercospora zeae-maydis) For the suppression of Fusarium and Gibberella ear rots (Fusarium spp. and Gibberella spp.) For suppression of the stalk rot pathogens Fusarium spp., Gibberella spp.and Colletotrichum spp. which may cause stalk lodging.	Apply SORATEL at 0.8 L/ha (200 g a.i./ha)	Fusarium Ear Rot outbreaks in corn occur when the weather is warm and wet during silking. It is also driven by hybrid selection and field history of severe fusarium outbreaks. The application of SORATEL for protection against Fusarium Ear Rot should be considered when these conditions are forecasted for a specific corn field. Applications of SORATEL timed for suppression of fusarium ear rot may also reduce lodging caused by stalk rot pathogens. Timing of application is critical: For optimum suppression of Fusarium Ear Rot apply SORATEL from the development stage of corn between the tip of stigmata visible (silking, BBCH 63) to the stigmata drying (silk browning, BBCH 67). SORATEL will reduce both disease symptoms and levels of mycotoxin in the grain. Spray Coverage is essential for optimum efficacy: Spray equipment must be set up to provide good coverage to the cobs. To achieve thorough cob coverage using ground application equipment, it is recommended to use drop-nozzles.		

			Nozzles should be operated within the spray pressure recommendations suggested by the manufacturer.
3.7	 -	 	

Note: The application may be made by ground or aerial spray equipment. Do not apply within 14 days of harvest. Do not apply more than one application per season.

Peanut	Peanut				
DISEASE	RATE	TIMING			
Soil-Borne:	0.8 L/ha (200 g a.i./ha)	For Soil-Borne Diseases			
Suppression of <i>Rhizoctonia</i> pod rot (<i>Rhizoctonia solani</i>)	,	Applications of fungicides with a different mode of action should be made prior to and following applications of SORATEL to discourage development of resistant strains of fungi.			
		In fields with a history of pod rot or in situations where conditions favour disease development apply SORATEL at about mid-season and continue SORATEL applications at 14-day intervals.			
		SORATEL must be carried by rainfall or irrigation into the root and pod zone for control of pod rot caused by <i>Rhizoctonia solani</i> . Drought conditions will decrease the effectiveness of SORATEL against pod rot.			
Foliar:	0.7-0.8 L/ha (175 - 200 g a.i./ha)	Foliar Disease Spray Program			
Early Leaf Spot (Cercospora arachidicola)	,	Apply the specified rate in a preventive spray schedule. Apply up to 4 sprays using a 14-day interval.			
Suppression of Leaf Rust (Puccinia arachidis)		When planting varieties with good to excellent levels of resistance to foliar diseases, the application interval may be extended up to 21 days in the absence of soil borne diseases.			
		Use the higher use rate when conditions are favourable for severe disease pressure and/or when growing less disease resistant varieties.			

Note: Apply up to four (4) applications of SORATEL per year. A maximum of 3.2 L per hectare of SORATEL may be applied per year. SORATEL may be applied up to 14 days before harvest. Do not feed hay or threshings or allow livestock to graze in treated areas. Applications may be made by ground spray equipment only.

Bushberry			
CROP	DISEASE	RATE	TIMING
Bushberry subgroup:	Suppression	Apply SORATEL at	Apply SORATEL at the first sign of disease.
Aronia berry;	of Septoria	0.6 L/ha (150 g	After the initial application, one additional
blueberry, highbush;	leaf spot	a.i./ha).	application may be made 10-14 days
blueberry, lowbush;	(Septoria		afterwards if conditions remain favorable for
buffalo currant;	spp.)		continued or increased disease development.
cranberry, highbush;	Suppression	Apply SORATEL at	
currant, black;	of Leaf rust	0.76 L/ha (190 g	
currant, red;	(Thekopsora	a.i./ha)	
elderberry; European	minima)		
barberry;	and		
gooseberry;	Valdensinia		

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honeysuckle, edible; huckleberry; jostaberry; Juneberry (Saskatoon berry);	leaf spot (Valdensinia heterodoxa) - blueberry only		
lingonberry; salal;	Monilinia	Apply SORATEL at	Begin applications at early bloom for fruit
sea buckthorn;	blight	0.6-0.8 L/ha (150-200	rot. Make a second application of SORATEL
cultivars, varieties,	(Monilinia	g a.i./ha)	or another approved fungicide 5-10 days
and/or hybrids of	vaccinii-		later.
these.	corymbosi) –		
	blueberry only		

General Comments: Apply up to two (2) applications of SORATEL per year. Applications may be made by ground application equipment only.

A maximum of 1.6 L/ha of SORATEL may be applied per crop year. Do not apply within 7 days of harvest.

General Comments: Apply up to two (2) applications of SORATEL per year. Applications may be made by ground spray equipment only.

A maximum of 1.4 L/ha of SORATEL may be applied per crop year. Do not apply within 45 days of harvest.

Sunflower, Safflower					
DISEASE	RATE	TIMING			
Sunflower rust	Apply SORATEL	Apply SORATEL when average rust severity reaches 1% on the			
(Puccinia helianthi)	at 0.8 L/ha (200 g	upper 4, fully expanded leaves prior to or during bloom.			
a.i./ha)					
Safflower rust					
(Puccinia carthami)					
Note: The application may be made by ground or aerial spray equipment. A maximum of one application (0.8)					

L/ha of SORATEL) may be applied to sunflower or safflower per crop year. Do not apply within 45 days of harvest. If applying SORATEL to greater than 310 ha per day of sunflower and/or safflower using open cab groundboom equipment, applicators must also wear a NIOSH/MSHA-approved respirator.

The DIRECTIONS FOR USE for the uses described in this section of the label were developed by persons other than ADAMA Agricultural Solutions Canada Ltd. under the User Requested Minor Use Label Expansion program. For these uses, ADAMA Agricultural Solutions Canada Ltd. 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.

CROP	DISEASE	RATE	TIMING			
Sunflower,	For suppression	Apply	Apply SORATEL when the crop is in the 10 - 50% disk			
Safflower	of Sclerotinia	SORATEL at	flower bloom stage.			
	head rot	0.8 L/ha (200				
	(Sclerotinia	g a.i./ha)				
	sclerotiorum)					
Note: The application may be made by ground or aerial spray equipment. A maximum of one application (0.8 L/ha of SORATEL) may be applied to sunflower or safflower per crop year. Do not <i>apply</i> within 45 days of harvest. If applying SORATEL to greater than 310 ha per day of sunflower and/or safflower using open cab groundboom equipment, applicators must also wear a NIOSH/MSHA-approved respirator.						
Flax	For control of	Apply	Apply SORATEL when the crop is in the 20 - 50% bloom			
(linseed),	Sclerotinia stem rot		stage. Best protection will be achieved when the			
Crambe,	(Sclerotinia	0.6-0.7 L/ha	fungicide is applied prior to petals beginning to fall, and			
Borage	sclerotiorum)	(150-175 g	will allow for the maximum number of petals to be			
		a.i./ha)	protected. The higher rate is recommended for fields with			
		,	a history of heavy disease pressure or for dense crop			
			stands. Good spray coverage of the plants is essential.			
Note: The ap	plication may be ma	de by ground or aer	ial spray equipment. A maximum of one application			
(0.7L/ha of S	SORATEL) may be a	pplied per crop yea	r. Do not apply within 36 days of harvest.			
Sugar beets	For control of	Apply	Apply SORATEL at the first sign of disease. Use the			
	foliar diseases:	SORATEL at	higher rate and shorter intervals when conditions are			
		0.6-0.8 L/ha	favorable for severe disease pressure and/or when			
	Cercospora Leaf	(150-200 g	growing less disease-resistant varieties. Apply the			
	Spot (Cercospora	a.i./ha)	specified rate of SORATEL in 100 – 200 L of water per			
	beticola)		hectare when using ground application equipment. Repeat			
			applications as needed using a 14 to 21- day spray			
			interval depending on disease pressure. Use a 14-day			
			spray interval under normal to heavy disease pressure and			
			a 21-day spray interval under light disease pressure.			
	For control of soil-		Apply SORATEL at the 4-leaf to row closure growth			
	borne diseases:	SORATEL at	stage. Apply the specified rate of SORATEL in 50 – 100			
	D1:	0.8 L/ha (200	L of water per hectare. Repeat applications as needed			
	Rhizoctonia Crown	g a.1./ha)	using a 21-day spray interval.			
	Rot (Rhizoctonia					
	solani)	(2.4.7.11				
Note: A ma	Note: A maximum of 3 applications (2.4 L/ha of SORATEL) may be applied per crop year. Do not apply					

within 7 days of harvest. The application may be made by ground or aerial application equipment. SORATEL is a Group 3 fungicide. To limit the potential for development of disease resistance, alternate every application of SORATEL with a non-Group 3 fungicide.

Rotation restrictions:

Treated areas may be replanted with any crop specified on this label as soon as practical after the last application. For crops not listed on this label, do not plant back within 30 days of last application.

Section 8: Resistance Management

Resistance Management Recommendations:

For resistance management, SORATEL contains a Group 3 fungicide. Any fungal population may contain individuals naturally resistant to SORATEL and other Group 3 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:

- Alternate with fungicides having a different mode of action other than Group 3 every 7 to 10 days after each application of SORATEL.
- Do not apply more than the indicated maximum number of applications per year specified for each crop in the DIRECTIONS FOR USE, Section 7 table.
- Use tank mixtures with fungicides 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 ADAMA Agricultural Solutions Canada Ltd. if reduced sensitivity of the pathogen to SORATEL 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 a ADAMA Agricultural Solutions Canada Ltd. representative at 1-855-264-6262 or at www.adama.com.

Section 9: Application Precautions

GROUND APPLICATION:

- 1. Use well-maintained and calibrated conventional spray equipment, which provides adequate and uniform coverage.
- 2. Apply SORATEL in a minimum of 100 L water/ha, unless otherwise specified in DIRECTIONS FOR USE, Section 7.
- 3. Spray screens should be no finer than 50 mesh.
- 4. Ensure that the by-pass line discharges at the bottom of the tank to minimize foaming.
- 5. Maintain pressure at no less than 275 kPa to ensure good foliage penetration and coverage.
- 6. Provincial spray buffer zones that are greater than the spray buffer zones indicated in the DIRECTIONS FOR USE, Section 7, should be respected.
- 7. If spray mixture remains in the tank overnight, or for long periods during the day, agitate thoroughly prior to application.

AERIAL APPLICATION-GENERAL INFORMATION:

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- 1. 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.
- 2. 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. If you have questions, call 1-855-264-6262 or obtain technical advice from the distributor or your provincial agricultural representative.
- 3. Ensure uniform application. To avoid streaked, uneven or overlapped application, use appropriate marking devices.
- 4. Apply SORATEL in a minimum of 50 L of water/ha.
- 5. To ensure proper coverage and distribution and to minimize drift, check to see that swath width and droplet size are adequate, and that wind velocities are low.
- 6. Use mechanical flaggers only.

AERIAL APPLICATION-USE PRECAUTIONS:

- 1. Apply only when meteorological conditions at the treatment site allow for complete and even crop coverage.
- 2. 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.

AERIAL APPLICATION- OPERATOR PRECAUTIONS:

- 1. **DO NOT** allow the pilot to mix chemicals to be loaded onto the aircraft. Loading of premixed chemicals with a closed system is permitted.
- 2. It is desirable that the pilot has communication capabilities at each treatment site at the time of application.
- 3. The field crew and mixers/loaders must wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, clean-up and repair. In addition, wear protective eyewear (goggles or face shield) during mixing and loading.
- 4. All personnel on the job site must wash hands and face thoroughly before eating and drinking.
- 5. Protective clothing, aircraft cockpit and vehicle cabs must be decontaminated regularly.
- 6. Read and understand the entire label before opening this product. If you have questions, call the manufacturer at 1-855-264-6262 or obtain technical advice from the distributor or your provincial agricultural representative.

Section 10: Mixing Instructions

Mixing Instructions:

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

SORATEL applied alone:

- Add one-half of the required amount of water to the spray or mixing tank and start agitation.
- Add the required quantity of SORATEL to the water and complete filling with water to the required total volume.

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• Maintain agitation throughout mixing and spraying.

Section 11: 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.

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