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 to perform post application activities during the intervals specified in the following table:

Crop	Activity	REI
Bushberries	Hand line irrigation	3 days
Sweet Corn	Hand harvesting	20 days
	Mechanical harvesting	14 days
	All other activities	24 hours
Seed Corn	Detasseling	20 days
	All other activities	24 hours
All other crops	All 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.

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.

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:

Booklet

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.

SORATEL is a trademark of an ADAMA Group Company

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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	Activity	REI
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	Mechanical harvesting	14 days
	All other activities	24 hours
Seed Corn	Detasseling	20 days
	All other activities	24 hours
All other crops	All 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.

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.

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.

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:

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- 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.

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 Zones (metres) Required for the Protection of:			
Method of	Cron	Aqu	Tamandaial		
application	Сгор	Less than 1 m	1-3 m	Greater than 3 m	Terrestrial 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)	wing) Flax (linseed), crambe, borage,		10	0	0	0
	soybeans					
	Corn, safflower, sunflower		15	5	0	0
	Oats		20	10	0	0
	Wheat, barley Lentils, field peas		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

CEREA	LS (Barley, Wheat	and Oats and C	ertain Other Small Grains)
CROP	DISEASE	RATE	TIMING
Barley	For suppression of Fusarium Head Blight (Fusarium spp.), or Scab	Apply SORATEL once, at 0.6-0.8 L/ha (150-200 g a.i./ha)	Fusarium head blight outbreaks in barley occur when the weather is warm and wet at ear emergence. The application of SORATEL for protection against Fusarium head blight (scab) should be considered when these 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.

	For control of: Net Blotch (Pyrenophora teres); Scald (Rhynchosporium secalis)	Apply SORATEL, at 0.4-0.6 L/ha (100-150 g a.i./ha)	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 WHEAT and BARLEY below. Apply SORATEL as a preventive foliar spray when the earliest disease symptoms appear on the leaves and stems. Barley fields should be observed closely for early disease symptoms, particularly when susceptible varieties are planted and/or under prolonged conditions favorable for disease development.
	Spot Blotch (Cochliobolus sativus)		
	ximum of 2 application		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.	A1	Everywheed blight outbrooks in subset assumed at
Wheat (spring, durum and winter)	For suppression of Fusarium Head Blight (<i>Fusarium</i> spp.), or Scab	Apply SORATEL once, at 0.6-0.8 L/ha (150-200 g	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
	For control of Glume blotch (Stagonosora nodorum)	a.i./ha)	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.
			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 WHEAT and BARLEY below.

For control of: Speckled Leaf Blotch (Septoria tritici); Tan spot (Pyrenophora tritici-repentis); Leaf Rust (Puccinia recondata)	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. 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.			
Note: A maximum of 2 application	Note: A maximum of 2 applications (1.4 L/ha) of SORATEL, with a minimum 7 day application interval, may be				

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

Oats	For control of Crown Rust (Puccinia coronata)	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 when susceptible varieties are planted and/or under prolonged conditions favorable for disease development.
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.

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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: The application 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.

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

Note: Applications may be made by ground or aerial spray equipment. Do not apply within 7 days of cutting or swathing of the crop.

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

Corn (field, sweet and popcorn)					
CROP	DISEASE	RATE	TIMING		
Corn (field,	For the control of Rusts	Apply	Apply SORATEL as a preventive foliar spray when		
sweet and	(Puccinia sorghi,	SORATEL at	the earliest disease symptoms appear on the leaves		
popcorn,	Puccinia polysora),	0.6 L/ha (150 g	and stems. Fields should be observed closely for		
including	Eyespot (Kabatiella	a.i./ha)	early disease symptoms, particularly under		
seed	zeae or Aureobasidium		prolonged conditions favorable for disease		
production)	zeae), and Northern		development.		
	Blight (Setosphaeria				

	1 ()		1
	turcica)		
	Provides control of all	Apply	Fusarium Ear Rot outbreaks in corn occur when the
	diseases listed above,	SORATEL at	weather is warm and wet during silking. It is also
	plus the following:	0.8 L/ha (200 g	driven by hybrid selection and field history of
		a.i./ha)	severe fusarium outbreaks. The application of
	For the control of Grey	,	SORATEL for protection against Fusarium Ear Rot
	Leaf Spot (Cercospora		should be considered when these conditions are
	zeae-maydis)		forecasted for a specific corn field.
	zeue-mayais)		Applications of SORATEL timed for suppression
	E 41		of fusarium ear rot may also reduce lodging caused
	For the suppression of		
	Fusarium and		by stalk rot pathogens.
	Gibberella ear rots		
	(Fusarium spp. and		Timing of application is critical: For optimum
	Gibberella spp.)		suppression of Fusarium Ear Rot apply SORATEL
			from the development stage of corn between the tip
	For suppression of the		of stigmata visible (silking, BBCH 63) to the
	stalk rot pathogens		stigmata drying (silk browning, BBCH 67).
	Fusarium spp.,		SORATEL will reduce both disease symptoms and
	Gibberella spp.and		levels of mycotoxin in the grain.
	Colletotrichum spp.		livers of my cotomic in the grains
	which may cause stalk		Spray Coverage is essential for optimum
			efficacy: Spray equipment must be set up to
	lodging.		
			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.
NI.4. TI.	1' 4'		

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					
DISEASE	RATE	TIMING			
Soil-Borne:	0.8 L/ha (200 g a.i./ha)	For Soil-Borne Diseases			
Suppression of Rhizoctonia	,	Applications of fungicides with a different mode of			
pod rot (Rhizoctonia solani)		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 at about find-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			
		Rhizoctonia solani. Drought conditions will decrease			
		the effectiveness of SORATEL against pod rot.			
Foliar:	0.7-0.8 L/ha (175 -	Foliar Disease Spray Program			
	200 g a.i./ha)				
Early Leaf Spot (Cercospora		Apply the specified rate in a preventive spray schedule.			
arachidicola)		Apply up to 4 sprays using a 14-day interval			
Suppression of Leaf Rust		Use the higher use rate when conditions are favourable			

(Puccinia arachidis)	for severe disease pressure and/or when growing less
	disease resistant varieties.

Note: Apply up to four (4) applications of SORATEL per year. 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. 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 mL/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					
honeysuckle, edible;	leaf spot					
huckleberry;	(Valdensinia					
jostaberry; Juneberry	heterodoxa) -					
(Saskatoon berry);	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) i i can i m				

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.

Low-Growing Berry, except strawberry						
CROP	DISEASE	RATE	TIMING			
Low growing berry	Fruit rot:	Apply SORATEL	Begin applications at early bloom for fruit			
subgroup, except	Coleophoma	at 0.7 L/ha (175 g	rot. Make a second application of SORATEL			
strawberry:	empetri,	a.i./ha)	or another approved fungicide 5-10 days			
Bearberry; bilberry;	Glomerella		later.			
cloudberry;	cingulata,					
cranberry;	Phyllosticta					
partridgeberry;	vaccinii,					
cultivars, varieties,	Physalospora					
and/or hybrids of	vaccinii					
these	Allantophomopsis					
	lycopodina,					
	Allantophomopsis					
	cytisporea,					
	Fusicoccum					
	putrefaciens,					
	Penicillium spp.,					
	Phomopsis					

vaccinii, Colletotrichum	
acutatum,	
Colletotrichum coccodes	
Suppression of	
Septoria leaf spot	
(Septoria spp.)	

General Comments: Apply up to two (2) applications of SORATEL per year. Repeat applications as needed using a 5- to 10-day spray interval if conditions remain favorable for continued or increasing disease development. 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 a.i./ha)	upper 4, fully expanded leaves prior to or during bloom.			
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.

NOTE TO USER: READ THE FOLLOWING BEFORE USING THIS PRODUCT FOR THE INDICATED SPECIAL USE APPLICATIONS:

The DIRECTIONS FOR USE for this product for the uses described below 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)		
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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.

Flax	For control of	Apply	Apply SORATEL when the crop is in the 20 - 50% bloom
(linseed),	Sclerotinia stem rot	SORATEL at	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 application may be made by ground spray equipment only. A maximum of one application (0.7L/ha of SORATEL) may be applied per crop year. 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 (<i>Čercospora</i>	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	Apply SORATEL at the 4-leaf to row closure growth
	borne diseases:	SORATEL at	stage. Apply the specified rate of SORATEL in 50 – 100
		0.8 L/ha (200	L of water per hectare. Repeat applications as needed
	Rhizoctonia Crown	g a.i./ha)	using a 21-day spray interval.
	Rot (Rhizoctonia		
	solani)		

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:

- 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.
- Maintain agitation throughout mixing and spraying.

Section 11: Pre-harvest Intervals

Стор	PHI (days)
Wheat (spring, durum and winter), Barley, Oats	30
Canola, Rapeseed, Oriental Mustard, Brassica carinata, Flax (Linseed), Crambe, borage	36
Corn (field, sweet, popcorn)	14
Chickpea, Lentils and Field Peas	7
Soybean	20
Sugar Beet	7
Bushberry	7
Peanut	14
Low-Growing Berries (except strawberries), Safflower, Sunflower	45

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.

SORATEL is a trademark of an ADAMA Group Company