

Container Label

GROUP	3	FUNGICIDE
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SORADUO™ ALL IN

FUNGICIDE

EMULSIFIABLE CONCENTRATE

COMMERCIAL

SORADUO™ ALL IN is a broad-spectrum systemic fungicide for the control or suppression of listed diseases on wheat, barley and triticale.

ACTIVE INGREDIENT:

Prothioconazole	125 g/L
Tebuconazole	125 g/L

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

**DANGER – EYE IRRITANT
CAUTION – SKIN IRRITANT**

REGISTRATION NO. 35796 PEST CONTROL PRODUCTS ACT

**For emergency medical help call PROPBARMA 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)**

ADAMA Agricultural Solutions Canada Ltd.
300 – 191 Lombard Avenue
Winnipeg, Manitoba R3B 0X11
1-855-264-6262

NET CONTENTS: 1 – 324 L

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.

PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN. Harmful if swallowed, inhaled or absorbed through the skin. Causes moderate eye irritation. Do NOT get in eyes. Avoid contact with skin, eyes, and clothing. May irritate the skin. Avoid breathing vapor or spray mist. 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.

DO NOT enter or allow worker entry into treated areas during the restricted-entry interval of 12 hours. Apply only when the potential for drift beyond the area to be treated is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment, and sprayer settings.

PROTECTIVE CLOTHING AND EQUIPMENT

Wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, application, clean-up and repair. In addition, workers must wear safety goggles or a face shield during mixing, loading, clean-up and repair. Coveralls are not required during application within closed cabs or cockpits. Gloves are not required during application within a closed cab 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. Do not give **any** liquid to the person. 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 to 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 DIRECTION FOR USE and APPLICATION IN FIELDS ADJACENT TO AQUATIC

AREAS. As this product is not registered for the control of pests in aquatic systems, DO NOT use to control aquatic pests. Do not apply to water, or to areas where surface water is present or to intertidal areas below the mean high-water mark. Runoff is hazardous to aquatic organisms in neighboring areas. 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. Additional guidance can be found on the Runoff Mitigation portion of the Canada.ca website. The residues of tebuconazole are persistent and may carry over. It is recommended that this product not be used in areas treated with any products containing tebuconazole during the previous year. To reduce runoff refer to the recommendations under “APPLICATION IN FIELDS ADJACENT TO AQUATIC AREAS”.

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 seeds, fertilizer, plants.

Do not use or store in or around the home.

Keep in original container during storage.

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/territorial 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 reuse this container for any other purpose.

Non-Returnable Container

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

2. Follow provincial/territorial instruction for any required additional cleaning of the container prior to its disposal.
3. Make the empty, rinsed container unsuitable for further use.
4. Dispose of the container in accordance with provincial/territorial requirements.

Disposal of Unused, Unwanted Product

For information on disposal of unused, unwanted product, contact the registrant or the provincial/territorial regulatory agency. Contact the registrant and the provincial/territorial 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. Buffer zones indicated in the DIRECTIONS FOR USE must also be respected.

Booklet Label

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NOTICE TO USER:

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SAFETY AND HANDLING

PRECAUTIONS

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PROTECTIVE CLOTHING AND EQUIPMENT

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TOXICOLOGICAL INFORMATION

Treat symptomatically.

ENVIRONMENTAL PRECAUTIONS

Toxic to aquatic organisms and non-target terrestrial plants. Observe spray buffer zones specified under DIRECTION FOR USE and APPLICATION IN FIELDS ADJACENT TO AQUATIC AREAS. As this product is not registered for the control of pests in aquatic systems, DO NOT use to control aquatic pests. Do not apply to water, or to areas where surface water is present or to intertidal areas below the mean high-water mark. Runoff is hazardous to aquatic organisms in neighboring areas. 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. Additional guidance can be found on the Runoff Mitigation portion of the Canada.ca website. The residues of tebuconazole are persistent and may carryover. It is recommended that this product not be used in areas treated with any products containing tebuconazole during the previous year. To reduce runoff refer to the recommendations under “APPLICATION IN FIELDS ADJACENT TO AQUATIC AREAS”.

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 seeds, fertilizer, plants.

Do not use or store in or around the home.

Keep in original container during storage.

DISPOSAL

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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 reuse this container for any other purpose.

Non-Returnable Container

1. Triple or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Follow provincial/territorial instruction for any required additional cleaning of the container prior to its disposal.
3. Make the empty, rinsed container unsuitable for further use.
4. Dispose of the container in accordance with provincial/territorial requirements.

Disposal of Unused, Unwanted Product

For information on disposal of unused, unwanted product, contact the registrant or the provincial/territorial regulatory agency. Contact the registrant and the provincial/territorial 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. Buffer zones indicated in the DIRECTIONS FOR USE must also be respected.

DIRECTIONS FOR USE

SORADUO™ ALL IN is a broad-spectrum systemic fungicide for control of a wide range of diseases on wheat (spring, winter and durum), barley and triticale (spring and winter). **SORADUO™ ALL IN** will protect the crop from yield and quality losses due to disease.

CROP, DISEASE, RATE AND TIMING

USE DIRECTIONS			
CROP	DISEASE	RATE (mL/ha)	REMARKS
Wheat (spring, winter and durum)	Suppression of: Fusarium Head Blight (<i>Gibberella zeae</i> / <i>Fusarium graminearum</i>)	800	For suppression of Fusarium Head Blight, apply SORADUO™ ALL IN Fungicide as a preventative spray 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 at this timing will also control the listed leaf diseases.
	Control of: Rust (Leaf, Stem and Stripe) (<i>Puccinia recondita</i> , <i>P. graminis</i> , <i>P. striiformis</i>)		
	Leaf & Glume Blotch (<i>Septoria tritici</i> , <i>Stagonospora nodorum</i>)		

	<p>Tan Spot (<i>Pyrenophora tritici-repentis</i>)</p> <p>Powdery mildew (<i>Erysiphe graminis</i>)</p>		<p>application, apply specified dosage in a minimum of 50 L of water per hectare.</p>
Barley	<p>Suppression of: Fusarium Head Blight (<i>Fusarium spp.</i>)</p> <p>Control of: Net Blotch (<i>Pyrenophora teres</i>)</p> <p>Spot Blotch (<i>Cochliobolus sativus</i>)</p> <p>Scald (<i>Rhynchosporium secalis</i>)</p> <p>Leaf Blotch (<i>Septoria passerinii</i>)</p> <p>Leaf, Stem and Stripe Rusts (<i>Puccinia hordei</i>, <i>Puccinia graminis</i>, <i>Puccinia striiformis</i>)</p> <p>Powdery Mildew (<i>Erysiphe graminis</i>)</p>	800	<p>For suppression of Fusarium head blight, apply SORADUO™ ALL IN 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 at this timing will also control the listed leaf diseases.</p> <p>Apply by ground or aerial application equipment. For ground application, apply specified dosage in a minimum of 100 L of water per hectare. For aerial application, apply specified dosage in a minimum of 50 L of water per hectare.</p>
Triticale (spring and winter)	<p>Suppression of: Fusarium Head Blight (<i>Gibberella zeae</i> / <i>Fusarium graminearum</i>)</p> <p>Control of: Rusts (<i>Puccinia recondita</i>, <i>P. graminis</i>, <i>P. striiformis</i>)</p> <p>Leaf & Glume Blotch (<i>Septoria tritici</i>, <i>Stagonospora nodorum</i>)</p> <p>Tan Spot (<i>Pyrenophora tritici-repentis</i>)</p> <p>Powdery mildew</p>	800	<p>For suppression of Fusarium Head Blight, apply SORADUO™ ALL IN as a preventative spray within the time period from when at least 75% of the heads on the main stem are fully emerged to when 50% of the heads on the main stem are in flower. Application at this timing will also control the listed leaf diseases.</p> <p>Apply by ground or aerial application equipment. For ground application, apply specified dosage in a minimum of 100 L of water per hectare. For aerial application, apply specified dosage in a minimum of 50 L of water per hectare.</p>

	(<i>Erysiphe graminis</i>)		
	Spot Blotch (<i>Cochliobolus sativus</i>)		

USE LIMITATIONS

- A maximum of one application of **SORADUO™ ALL IN** may be applied per crop season.
- Applications may not be made within 36 days of harvest.
- Do not allow livestock to graze or feed green forage to livestock prior to 6 days after treatment with **SORADUO™ ALL IN**.
- Straw cut after harvest may be fed or used for bedding.
- **DO NOT** enter or allow worker entry into treated areas during the restricted-entry interval of 12 hours
- **DO NOT** apply this product directly to freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs, ditches and wetlands), estuaries or marine habitats. **DO NOT** contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.
- Field sprayer application: **DO NOT** apply when wind speed is less than 1 km/h. Avoid application of this product when winds are gusty. **DO NOT** apply with sprays finer than the American Society of Agricultural and Biological Engineers (ASABE S572.1) medium classification. Boom height must be 60 cm or less above the crop or ground.
- Conventionally piloted aircraft application: **DO NOT** apply when wind speed is less than 1 km/h. 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 sprays finer than the American Society of Agricultural and Biological Engineers (ASABE 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). In addition to the buffer zones specified in the table below, users must also observe buffer zones specified under APPLICATION IN FIELDS ADJACENT TO AQUATIC AREAS.

Method of application	Crop	Spray buffer Zones (metres) Required for the Protection of:
		Terrestrial Habitats
Field sprayer	Wheat (spring, winter and durum), Barley and Triticale (spring and winter)	1

Aerial	Wheat (spring, winter and durum), Barley	Fixed-wing	15
	Wheat (spring, winter and durum), Barley	Rotary-wing	10

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 (ASABE) category indicated on the labels for those tank mix partners.

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

TANK-MIXES

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.

APPLICATION IN FIELDS ADJACENT TO AQUATIC AREAS

OBSERVE THE FOLLOWING PRECAUTIONS WHEN SPRAYING IN THE VICINITY OF AQUATIC AREAS SUCH AS LAKES, RESERVOIRS, RIVERS, PERMANENT STREAMS, MARSHES OR NATURAL PONDS, AND ESTUARIES.

DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes. 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. Additional guidance can be found on the Runoff Mitigation portion of the Canada.ca website.

Do not cultivate within 3 metres of an aquatic area to allow growth of a vegetative filter strip. Do not apply by ground or air within 30 metres of aquatic areas listed above.

The aquatic buffer zone of 30 metres **may not** be modified by the Spray Buffer Zone Calculator on the Pesticides portion of the Canada.ca website.

ROTATIONAL CROPS

Treated areas may be replanted with any crop specified on this label and soybean as soon as

practical after the last application. A rotational plant-back interval of 120 days must be observed for crops not listed on the label.

PRE-HARVEST INTERVALS

Crop	PHI
Wheat (spring, winter and durum)	36 days
Barley	36 days
Triticale (spring and winter)	36 days

MIXING INSTRUCTIONS

SORADUO™ ALL IN must be applied with properly calibrated, clean equipment. Prior to adding **SORADUO™ ALL IN** to the spray tank, ensure that the spray tank is thoroughly clean.

SORADUO™ ALL IN 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 **SORADUO™ ALL IN** to the water and complete filling with water to the required total volume.
- Maintain agitation throughout mixing and spraying.

APPLICATION PRECAUTIONS

GROUND APPLICATION

1. Use well-maintained and calibrated conventional spray equipment, which provides adequate and uniform coverage.
2. Apply **SORADUO™ ALL IN** in a minimum of 100 L water/ha.
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/territorial buffer zones that are greater than the buffer zones indicated in the DIRECTIONS FOR USE, 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 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.
3. Ensure uniform application. To avoid streaked, uneven or overlapped application, use appropriate marking devices or a Global Positioning System (GPS).
4. Apply **SORADUO™ ALL IN** 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 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.
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 registrant at 1-855-264-6262 or obtain technical advice from the distributor or your provincial/territorial agricultural representative. Application of this specific product must meet and/or conform to the following:

Volume: For ground application, apply the recommended rate in a minimum spray volume of 100 litres of water per hectare. For aerial application, apply the recommended rate in a minimum spray volume of 50 litres of water per hectare.

RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, please note that **SORADUO™ ALL IN** contains two Group 3 fungicides. Any fungal population may contain individuals naturally resistant to **SORADUO™ ALL IN** 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:

- Where possible, rotate the use of **SORADUO™ ALL IN** or other Group 3 fungicides with different groups that control the same pathogens.
- Use tank mixtures with fungicides from a different group that is effective on the target pathogen when such use is permitted.
- 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 **SORADUO™ ALL IN** 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 or to report suspected resistance, contact ADAMA Agricultural Solutions Canada Ltd. at 1-855-264-6262.

SORADUO ALL IN is a trademark of an ADAMA Group Company.

All other products listed are registered trademarks of their respective companies.