

CAUTION
KEEP OUT OF REACH OF CHILDREN
READ SAFETY DIRECTIONS BEFORE OPENING OR USING

Prosaro[®] 420 SC

FOLIAR FUNGICIDE

Active Constituents: 210 g/L PROTHIOCONAZOLE
 210 g/L TEBUCONAZOLE

GROUP **3** FUNGICIDE

For the control of various diseases in wheat and barley as specified in the DIRECTIONS FOR USE table

GENERAL INSTRUCTIONS

Foliar diseases on cereal crops

Monitor the crop regularly for symptoms of disease. Generally spray at the first sign of disease, although this will depend on factors such as expected weather conditions and the particular crop variety resistance. Refer to Directions for Use for particular disease recommendations. Up to two sprays of Prosaro may be applied per season to the crop. Ensure good coverage of all susceptible plant parts.

Fungicide Resistance Warning

Prosaro is a member of the DMI group of fungicides. For fungicide resistance management the product is a Group 3 fungicide. Some naturally occurring individual fungi resistant to the product and other Group 3 fungicides may exist through normal genetic variability in any fungal population. The resistant individuals can eventually dominate the fungal population if these fungicides are used repeatedly. These resistant fungi will not be controlled by this product and other Group 3 fungicides, thus resulting in a reduction in efficacy and possible yield loss. Since the occurrence of resistant fungi is difficult to detect prior to use, Bayer CropScience accepts no liability for any losses that result from failure of this product to control resistant fungi.

Export of treated produce

Growers should note that MRLs or import tolerances do not exist in all markets for produce treated with Prosaro. If you are growing produce for export, please check with Bayer CropScience for the latest information on MRLs and import tolerances before using Prosaro.

Mixing

Prior to pouring, shake container vigorously, then add the required quantity of Prosaro 420 SC to water in the spray vat with agitators in motion. Add the required amount of adjuvant if necessary and mix thoroughly.

Application

Ground: Apply product using a spray volume of 70 – 100 L/ha and a MEDIUM spray quality as defined by the ASAE S572 Standard.

Aerial: Apply product using a minimum spray volume of 20 L/ha and a MEDIUM spray quality as defined by the ASAE S572 Standard.

Compatibility

For information on compatibility please contact Bayer CropScience.

USE OF ADJUVANT

Depending on the disease that is to be treated in the crop, some benefit in efficacy may be gained from addition of an appropriate adjuvant to the spray mixture.

Follow these guides when deciding on the addition of an adjuvant to the tank mixture prior to spraying.

Disease	Addition of adjuvant	
	Prosaro 420 SC 150 mL/ha	Prosaro 420 SC 300 mL/ha
Barley		
Net form net blotch	Yes	Not required
Spot form net blotch	Yes	Not required
Powdery mildew	Not required	Not required
Leaf scald	Yes	Not required
Leaf rust	Yes	Not required

Disease	Addition of adjuvant	
	Prosaro 420 SC 150 mL/ha	Prosaro 420 SC 300 mL/ha
Stripe rust	Yes	Yes (BS 1000 only)
Stem rust	Yes	Yes (BS 1000 only)
Leaf rust	Yes	Yes (BS 1000 only)
Yellow leaf spot	Not required	Not required
Septoria nodorum – glume blotch	Yes	Not required
Powdery mildew	Yes	Not required

Suitable Adjuvants	Comments
BS 1000 0.25%	Can be used at all rates of Prosaro 420 SC for ground and aerial application
Hasten 1% Rocket 1% Kwickin 1% D-C-Trate Advance 1% D-C-Trate 1% Uptake 0.5%	For use with Prosaro 420 SC at 150 mL/ha only Do not use with Prosaro 420 SC at rates above 150 mL/ha Do not use for aerial application

PRECAUTIONS

Re-entry Period

Do not allow entry into treated areas until spray has dried after treatment. When prior entry is necessary, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing), and chemical resistant gloves. Clothing must be laundered after each day's use.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

Very toxic to aquatic life. DO NOT contaminate streams, rivers, drains or waterways with the chemical or used containers. A spraydrift minimisation strategy should be employed at all times. Spray drift may occur under adverse meteorological conditions or from certain spraying equipment. Do not allow spray to drift onto sensitive areas including, but not limited to, susceptible plants/crops, cropping land, pasture, natural streams, rivers, wetlands, waterways or human dwellings.

Integrated pest management – where IPM is practiced: Prosaro 420 SC Foliar Fungicide may have adverse effects on some non-target beneficial insects such as predatory mites.

STORAGE AND DISPOSAL

Store in the closed, original container in a cool, well ventilated area. Do not store for prolonged periods in direct sunlight. Triple rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on site. If not recycling, break, crush or puncture and deliver empty packaging to an approved waste management facility. DO NOT burn empty containers or product. Do not re-use empty container for any other purpose.

SAFETY DIRECTIONS

May irritate eyes. Avoid contact with eyes. When opening the container, mixing and loading and preparing spray, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing), and elbow length chemical resistant gloves. When using the prepared spray, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing). Wash hands after use. After each day's use wash gloves, and contaminated clothing.

FIRST AID

If poisoning occurs contact a doctor or Poisons Information Centre (telephone 13 11 26).

MATERIAL SAFETY DATA SHEET

Additional information is listed in the Material Safety Data Sheet, which can be obtained from www.bayercropscience.com.au.

EXCLUSION OF LIABILITY

This product must be used strictly as directed, and in accordance with all instructions appearing on the label and in other reference material. So far as it is lawfully able to do so, Bayer CropScience Pty Ltd accepts no liability or responsibility for loss or damage arising from failure to follow such directions and instructions.

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APVMA Approval No. 63243/49168

FOR 24 HOUR SPECIALIST ADVICE
IN EMERGENCY ONLY
PHONE 1800 033 111

DIRECTIONS FOR USE

A maximum of two applications may be made per crop.

SPRAY DRIFT RESTRAINTS

DO NOT apply with spray droplets smaller than a **MEDIUM** spray droplet category as defined by the ASAE S572 Standard. Users **MUST ONLY USE** nozzles classified as suitable for delivering a **MEDIUM** spray droplet category according to the nozzle manufacturer’s specifications.

DO NOT apply when wind speed is less than 3 or more than 20 km/h as measured at the application site.

DO NOT apply during surface temperature inversion conditions at the application site.

Users of this product **MUST make an accurate written record** of the details of each spray application within 24 hours following application and **KEEP** this record for a minimum of 2 years. The spray application details that must be recorded are: **1.**date and start and finish times of application; **2.**location address and paddock/s sprayed; **3.**full name of this product; **4.**amount used per hectare and number of hectares applied to; **5.**crop/situation and weed/pest; **6.**wind speed and direction during application; **7.**air temperature; **8.**nozzle brand, model and type and spray system pressure measured during application; **9.**name and address of person applying this product. (Additional record details may be required by the State or Territory where this product is used.)

MANDATORY NO-SPRAY ZONE

DO NOT apply if there are aquatic and wetland areas, including aquacultural ponds, surface streams and rivers downwind from the application area and within the **mandatory no-spray zones** shown in Table A below.

Table A – No-Spray Zones for Protection of the Aquatic Environment	
FOR AERIAL APPLICATION	
Wind Speed Range at Time of Application	Downwind Mandatory No-Spray Zone
	Fixed-Wing
From 3 to 20 kilometres per hour	80 metres
	Helicopter
From 3 to 20 kilometres per hour	60 metres
FOR GROUND APPLICATION	
From 3 to 20 kilometres per hour	5 metres

CROP	STATE	DISEASE	RATE	CRITICAL COMMENTS	
Barley	All States	Net form net blotch (<i>Pyrenophora teres</i> f. <i>teres</i>)	150 to 300 mL/ha	<p>Monitor crops from mid tillering.</p> <p>On susceptible varieties apply at the first sign of disease development. Monitor and reapply within 14 to 21 days if conditions favour disease development.</p> <p>Use the higher rates (up to 300 mL/ha) where conditions favour severe disease.</p> <p>Where lower rates are used apply with a suitable adjuvant (refer to Use of Adjuvant).</p>	
		Spot form net blotch (<i>Pyrenophora teres</i> f. <i>maculata</i>)			
		Powdery mildew (<i>Blumeria graminis</i> f.sp. <i>hordei</i>)			<p>Monitor crops from mid-tillering.</p> <p>Use the higher rate in higher yielding crops where conditions favour disease development or susceptible varieties are grown.</p>
		Leaf scald (<i>Rhynchosporium secalis</i>)			<p>Monitor crops from mid tillering (earlier if no effective seed treatment has been applied).</p> <p>On susceptible varieties apply at the first sign of disease development. Monitor and reapply within 14 to 21 days if conditions favour disease development.</p> <p>Use the higher rates (up to 300 mL/ha) where conditions favour severe disease.</p> <p>Where lower rates are used apply with a suitable adjuvant (refer to Use of Adjuvant).</p>
		Leaf rust (<i>Puccinia hordei</i>)		<p>Monitor crops from late tillering.</p> <p>Apply at the first sign of disease development. Monitor and reapply within 14 to 21 days if conditions favour disease development.</p> <p>Use the higher rates (up to 300 mL/ha) where conditions favour severe disease, or disease is established in the lower canopy.</p> <p>Where lower rates are used apply with a suitable adjuvant (refer to Use of Adjuvant).</p>	

CROP	STATE	DISEASE	RATE	CRITICAL COMMENTS
Wheat	All States	Stripe rust (<i>Puccinia striiformis</i>)	150 mL/ha to 300 mL/ha + adjuvant (refer to Use of Adjuvant)	Monitor crops from early stem elongation, and on susceptible varieties apply at the first sign of infection.
		Stem rust (<i>Puccinia graminis tritici</i>)		Use the higher rate (up to 300 mL/ha) in higher yielding crops where conditions favour disease development or susceptible varieties are grown.
		Leaf rust (<i>Puccinia recondita</i> f.sp. <i>tritici</i> , <i>Puccinia triticina</i>)		Continue to monitor crops after application, re-application may be required if conditions favour disease development and initial application is made before the flag leaf has emerged.
		Yellow leaf spot (<i>Pyrenophora tritici-repentis</i>)	150 to 300 mL/ha	Monitor crops from late tillering and spray before disease has infected any of the top three leaves of the crop. Aim to protect the three top leaves of the plant from disease.
		Septoria nodorum - glume blotch (<i>Phaeosphaeria nodorum</i>)		Monitor crops from late tillering. Aim to protect the three top leaves of the plant from disease. Where lower rates are used apply with a suitable adjuvant (refer to Use of Adjuvant).
Powdery mildew (<i>Blumeria graminis</i> f. sp. <i>tritici</i>)	Monitor crops from mid tillering. Apply at the first sign of disease development. Monitor and reapply within 14 to 21 days if conditions favour disease development. Use the higher rates (up to 300 mL/ha) where conditions favour severe disease, or disease is established in the lower canopy. Where lower rates are used apply with a suitable adjuvant (refer to Use of Adjuvant).			

NOT TO BE USED FOR ANY PURPOSE, OR IN ANY MANNER, CONTRARY TO THIS LABEL UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION

WITHHOLDING PERIODS

Wheat and barley: **DO NOT HARVEST FOR 5 WEEKS AFTER APPLICATION**
DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 14 DAYS AFTER APPLICATION

A MANDATORY NO-SPRAY ZONE IS REQUIRED FOR PROTECTION OF THE ENVIRONMENT. REFER TO RESTRAINTS.