

# CAUTION

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

# Soprano<sup>®</sup> 500

## Fungicide

ACTIVE CONSTITUENT: **500 g/L EPOXICONAZOLE**

**GROUP 3 FUNGICIDE**

Crops: Barley, Oats, Wheat, Banana

Controls or Suppresses: Eyespot, Leaf Rust, Leaf Scald, Net form of Net Blotch, Powdery Mildew, Septoria Nodorum Blotch, Septoria Leaf Blotch, Septoria Triticum Blotch, Spot form of Net Blotch, Stem Rust, Stripe Rust, Yellow Spot, leaf spot (Yellow Sigatoka) and leaf speckle as per the Directions for Use

Formulation type

Suspension Concentrate



# ADAMA

adama.com

CONTENTS: 1 L - 110 L

### DIRECTIONS FOR USE

#### RESTRAINTS

DO NOT exceed a total rate of 250 mL/ha of SOPRANO<sup>®</sup> 500 in wheat and barley per growing season.

DO NOT apply more than two applications of SOPRANO<sup>®</sup> 500 in oats per growing season.

#### SPRAY DRIFT RESTRAINTS

Specific definitions for terms used in this section of the label can be found at [apvma.gov.au/spraydrift](http://apvma.gov.au/spraydrift).

**DO NOT** allow bystanders to come into contact with the spray cloud.

**DO NOT** apply in a manner that may cause an unacceptable impact to native vegetation, agricultural crops, landscaped gardens and aquaculture production, or cause contamination of plant or livestock commodities, outside the application site from spray drift. The buffer zones in the relevant buffer zone table/s below provide guidance but may not be sufficient in all situations. Wherever possible, correctly use application equipment designed to reduce spray drift and apply when the wind direction is away from these sensitive areas.

**DO NOT** apply unless the wind speed is between 3 and 20 kilometres per hour at the application site during the time of application.

**DO NOT** apply if there are surface temperature inversion conditions present at the application site during the time of application. These conditions exist most evenings one to two hours before sunset and persist until one to two hours after sunrise.

**DO NOT** apply by a boom sprayer unless the following requirements are met:

- Spray droplets not smaller than a **MEDIUM** spray droplet size category.
- Minimum distances between the application site and downwind sensitive areas (see 'Mandatory buffer zones' section of the following table titled 'Buffer zones for boom sprayers') are observed.

#### Buffer zones for boom sprayers

Application rate	Boom height above the target canopy	Mandatory downwind buffer zones				
		Bystander areas	Natural aquatic areas	Pollinator areas	Vegetation areas	Livestock areas
Up to maximum label rate	0.5 m or lower	0 metres	0 metres	0 metres	0 metres	0 metres
	1.0 m or lower	15 metres	25 metres	0 metres	0 metres	5 metres

**DO NOT** apply by a vertical sprayer unless the following requirements are met:

- Spray is not directed above the target canopy.
- The outside of the sprayer is turned off when turning at the end of rows and when spraying the outer row on each side of the application site.
- For dilute water rates up to the maximum listed for each type of canopy specified, minimum distances between the application site and downwind sensitive areas (see 'Mandatory buffer zones' section of the following table titled 'Buffer zones for vertical sprayers') are observed.

#### Buffer zones for vertical sprayers (bananas only)

Type of target canopy	Mandatory downwind buffer zones				
	Bystander areas	Natural aquatic areas	Pollinator areas	Vegetation areas	Livestock areas
Taller than 2 metres, maximum application rate 150 mL/ha	5 metres	10 metres	0 metres	0 metres	0 metres

**DO NOT** apply by aircraft unless the following requirements are met:

- Spray droplets not smaller than a **MEDIUM** spray droplet size category.
- For maximum release heights above the target canopy of 3 m or 25% of wingspan or 25% of rotor diameter whichever is the greatest, minimum distances between the application site and downwind sensitive areas (see 'Mandatory buffer zones' section of the following table titled 'Buffer zones for aircraft') are observed.

**Buffer zones for aircraft**

Type of aircraft	Mandatory downwind buffer zones				
	Bystander areas	Natural aquatic areas	Pollinator areas	Vegetation areas	Livestock areas
<b>Fixed-wing</b>	95 metres	110 metres	0 metres	0 metres	85 metres
<b>Helicopter</b>	70 metres	85 metres	0 metres	0 metres	55 metres

CROP	DISEASE	RATE/HA	CRITICAL COMMENTS
Barley	Eyespot ( <i>Oculimacula yallundae</i> ) Suppression only	125 mL	Apply to at risk crops when conditions favour disease development and prior to establishment of disease in the crop. Aim to apply from mid-tillering (Z25) to flag leaf emergence (Z39). Application prior to canopy closure may improve coverage, enhance efficacy and reduce lodging from eyespot infections. Applications beyond flag leaf emergence (Z39) may not provide any yield benefit. DO NOT apply later than Z59.
	Leaf Rust ( <i>Puccinia hordei</i> ) Leaf Scald ( <i>Rynchosporium secalis</i> ), Net form of Net Blotch ( <i>Pyrenophora teres</i> f.sp. <i>teres</i> ), Spot form of Net Blotch ( <i>Pyrenophora teres</i> f. sp. <i>maculata</i> )	65 to 125 mL	Apply when conditions favour disease development and prior to development of high levels of infection in the crop. Aim to apply from jointing (Z30) if disease is present and/or if conditions favour infection. Use the higher rate when disease is present on the top leaf or conditions are favourable for infection during these stages of crop development. Regularly monitor crops from 3-4 weeks post application. Repeat spraying may be required, particularly if infection occurs early. DO NOT apply after Z59 as yield responses are unlikely.
	Powdery Mildew ( <i>Blumeria graminis</i> f.sp. <i>tritici</i> )		Apply at the first sign of the disease during the tillering stage (Z21-22). Regularly monitor the crop 3-4 weeks post-application. Apply a second spray if infection pressure persists. DO NOT apply after Z59 as yield responses are unlikely.
Oats and Oaten Hay	Septoria Leaf Blotch ( <i>Phaeosphaeria avenaria</i> )	65 mL	Apply when conditions favour disease development and preferably prior to development of high levels of disease in the crop. Aim to apply between stem elongation and completion of flag leaf emergence (Z31-41) if disease is present or conditions favour disease development. Regularly monitor the crop from 3-4 weeks after the first application for signs of re-infection. Repeat spraying may be required, particularly if infection occurs early. DO NOT apply later than Z59 as yield responses are unlikely.
Wheat	Eyespot ( <i>Oculimacula yallundae</i> ) Suppression only	125 mL	Apply to at risk crops when conditions favour disease development and prior to establishment of disease in the crop. Aim to apply from mid-tillering to flag leaf emergence (Z24-39). Application prior to canopy closure may improve coverage, enhance efficacy and reduce lodging from eyespot infections. Applications beyond flag leaf emergence (Z39) may not provide any yield benefit. A second application after a 28-day spray interval may be required, particularly if re-infection occurs. DO NOT apply later than Z59.
	Leaf Rust ( <i>Puccinia recondita</i> ), Septoria Nodorum Blotch ( <i>Phaeosphaeria nodorum</i> ), Septoria Tritici Blotch ( <i>Mycosphaerella graminicola</i> ), Stem Rust ( <i>Puccinia graminis</i> ), Stripe Rust ( <i>Puccinia striiformis</i> ), Yellow Spot ( <i>Pyrenophora tritici-repentis</i> )	65 to 125 mL	Apply when conditions favour disease development and prior to development of high levels of disease in the crop. Aim to apply during between stem elongation and complete ear emergence (Z31-59). Use the higher rate when disease is present on the top leaf or conditions are favourable for infection during these stages of crop development. Regularly monitor crops from 3-4 weeks post application. Repeat spraying may be required, particularly if infection occurs early. DO NOT apply later than Z59.
	Powdery Mildew ( <i>Blumeria graminis</i> f.sp. <i>tritici</i> )		Apply at the first sign of the disease during the tillering stage (Z21-22). Regularly monitor the crop 3-4 weeks post-application. Apply a second spray if infection pressure persists. DO NOT apply later than Z59 as yield responses are unlikely.
Bananas (bagged)	Leaf spot (Yellow Sigatoka) ( <i>Mycosphaerella musicola</i> ) Leaf speckle ( <i>Mycosphaerella musae</i> )	150 mL + 5 L of water miscible spraying oil	DO NOT use on bananas unless bunch covers are in place. <b>Tropical areas (north Qld, NT, WA):</b> Apply a regular protectant program. When conditions favour disease development, apply a maximum of 2 consecutive sprays of SOPRANO 500 at 14 to 21 day intervals, before switching to a fungicide from an alternative activity group. DO NOT apply more than 6 sprays of Group 3 Fungicides in any 12-month period. DO NOT Apply SOPRANO 500 during the months of July, August or September. <b>Sub-tropical areas (south Qld, NSW):</b> Commence spraying with SOPRANO 500 at the onset of wet/humid conditions. Apply a maximum of 2 consecutive sprays at 21 to 28 day intervals before changing to a fungicide from an alternative activity group. DO NOT apply more than 5 sprays of Group 3 Fungicides in any 12-month period.

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

#### WITHHOLDING PERIODS:

##### BARLEY, OATS, WHEAT:

**HARVEST:** NOT REQUIRED WHEN USED AS DIRECTED.

**GRAZING:** DO NOT GRAZE OR CUT FOR STOCKFOOD FOR 3 WEEKS AFTER APPLICATION.

##### BANANAS (BAGGED):

**HARVEST:** DO NOT HARVEST FOR 1 DAY AFTER APPLICATION.

#### EXPORT TRADE ADVICE

##### Export of treated produce

Growers should note that Maximum Residue Limits (MRLs) or import tolerances do not exist in all markets for produce treated with SOPRANO® 500. Additionally, some export markets have established MRLs different to those in Australia. If you are growing produce for export, please check with Adama Australia or your produce exporter for the latest information on MRLs and import tolerances BEFORE using SOPRANO® 500.

#### LIVESTOCK DESTINED FOR EXPORT MARKETS

The grazing withholding period only applies to stock slaughtered for the domestic market. Some export markets apply different standards. To meet these standards, ensure that in addition to complying with the grazing withholding period, the Export Slaughter Interval is observed before stock are sold or slaughtered.

#### EXPORT SLAUGHTER INTERVAL (ESI)

AFTER OBSERVING THE WITHHOLDING PERIOD FOR GRAZING OR CUTTING FOR STOCKFOOD, LIVESTOCK THAT HAVE BEEN GRAZED ON OR FED TREATED CROPS SHOULD BE PLACED ON CLEAN FEED FOR 3 DAYS PRIOR TO SLAUGHTER.

#### GENERAL INSTRUCTIONS

SOPRANO® 500 Fungicide is a broad spectrum contact and systemic fungicide. It is taken up via the stem and foliage and is translocated upwards and outwards to provide protection to new growth. Thorough coverage of the crop is necessary for best results.

Check the crop regularly for any symptoms of disease infection. Apply as soon as disease is present, and preferably prior to disease establishment. For effective management of eyespot disease, avoid tank mixtures with herbicides and apply prior to canopy closure. Application beyond flag leaf emergence (Z39) may not provide any yield benefit, particularly under dry seasonal conditions.

#### MIXING

SOPRANO® 500 is a suspension concentrate formulation. Add the product to the half-filled spray tank while agitating. Continue to agitate while topping up the tank and during spraying.

#### APPLICATION

##### Cereals

Application of SOPRANO® 500 with BS1000† (or equivalent formulation) at 200 mL/100 L may improve disease control in cereals, particularly at the lower application rate.

**Ground Application:** Apply in a water volume of between 50 and 100 L/ha, using flat fan nozzles operating at around 50 cm above the top of the crop. Use the higher water volume in crops with heavier canopies.

**Aerial Application:** Apply with suitable aircraft, (e.g. airplanes, helicopters and drones) set up and operated to apply fungicides to cereal crops in a minimum water volume of 20 L/ha.

##### Bananas

**Ground Application:** Apply by misting machine, airblast or vertical boom spray in an appropriate application volume.

**Aerial Application:** Apply in a minimum application volume of 30 L/ha.

#### FUNGICIDE RESISTANCE WARNING

SOPRANO® 500 Fungicide is a member of the DMI group of fungicides.

For fungicide resistance management

SOPRANO® 500 is a Group 3 fungicide. Some

GROUP **3** FUNGICIDE

naturally occurring individual fungi resistant to SOPRANO® 500 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 or 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, Adama Australia accepts no liability for any losses that may result from the failure of this product to control resistant fungi.

Uses of SOPRANO® 500 are subject to CropLife Australia Fungicide Resistance Management guidelines. Refer to the relevant guidelines prior to using SOPRANO® 500.

#### PRECAUTIONS

DO NOT use human flaggers/markers unless they are protected by engineering controls such as controlled cabs.

**Re-entry period:** DO NOT allow entry into treated areas until the spray has dried. When prior entry is necessary, wear cotton overalls buttoned to the neck and wrist and a washable hat and chemical resistant gloves. Clothing must be laundered after each day's use.

#### PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

DO NOT apply under weather conditions or from spraying equipment that may cause spray to drift over nearby susceptible plants, crops, cropping lands or pastures.

#### PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

Highly toxic to aquatic organisms. DO NOT apply SOPRANO® 500 aerially to waterbodies, watercourses or wetlands. DO NOT contaminate streams, rivers or watercourses with the chemical or used containers.

#### STORAGE AND DISPOSAL

**Non-refillable containers:** Store in the closed, original container in a well-ventilated area as cool as possible, out of direct sunlight. This container can be recycled if it is clean, dry, free of visible residues and has the *drumMUSTER* logo visible. Triple rinse container before disposal. Add rinsings to spray tank. Dispose of the rinsate by adding it to the spray tank. DO NOT dispose of undiluted chemicals on site. Wash outside of the container and the cap. Store cleaned container in a sheltered place with cap removed. It will then be acceptable for recycling at any *drumMUSTER* collection or similar container management program site. The cap should not be replaced but may be taken separately. If not recycling, break, crush, or puncture and deliver empty packaging for appropriate disposal to an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots, in compliance with relevant Local, State or Territory government regulations. DO NOT burn empty containers or product.

**Refillable containers:** Store the original sealed container in a cool well-ventilated area. DO NOT store for prolonged periods in direct sunlight. DO NOT tamper with the Micro Matic valve or the security seal. DO NOT contaminate the container with water or any foreign matter. After each use of the product, please ensure that the Micro Matic coupler delivery system and hoses are disconnected, triple rinsed with clean water and drained accordingly. When the contents of the container have been used, please return the container to the point of purchase. The container remains the property of Adama Australia.

#### SAFETY DIRECTIONS

May irritate the eyes and skin. Avoid contact with eyes and skin. When opening the container and preparing spray, wear cotton overalls buttoned to the neck and wrist, a washable hat, elbow-length PVC gloves and goggles. When using the prepared spray wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and a washable hat. If product on skin, immediately wash area with soap and water. Wash hands after use. After each day's use, wash gloves, goggles and contaminated clothing.

#### FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 13 11 26.

#### SAFETY DATA SHEET

Additional information is listed in the safety data sheet (SDS). A safety data sheet for SOPRANO® 500 is available from adama.com or call Customer Service on 1800 423 262.

**CONDITIONS OF SALE:** The use of SOPRANO® 500 Fungicide being beyond the control of the manufacturer, no warranty expressed or implied is given by Adama Australia, regarding its suitability, fitness or efficiency for any purpose for which it is used by the buyer, whether in accordance with the directions or not and Adama Australia accepts no responsibility for any consequence whatsoever resulting from the use of this product.

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† Other trademark

#### NOT A DANGEROUS GOOD ACCORDING TO THE AUSTRALIAN DANGEROUS GOODS (ADG) CODE.

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