

Product Name: Surefire Azlan Fungicide
APVMA Approval No: 87767/134027



Label Name:	Surefire Azlan Fungicide
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Signal Headings:	CAUTION KEEP OUT OF REACH OF CHILDREN READ SAFETY DIRECTIONS BEFORE OPENING OR USING
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Constituent Statements:	ACTIVE CONSTITUENTS: 200 g/L TEBUCONAZOLE 120 g/L AZOXYSTROBIN
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Mode of Action:	GROUP 3 11 FUNGICIDE
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Statement of Claims:	For the control of foliar diseases on grapevines as per the Directions for Use. Controls/Suppresses foliar diseases in barley and wheat as specified in the Directions for Use. For control of turf diseases as specified in the Directions for Use.
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Net Contents:	1 - 1000 Litres
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Restraints:	This section contains file attachment.
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Directions for Use:	This section contains file attachment.
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Other Limitations:	
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Withholding Periods:	WITHHOLDING PERIODS:
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	<p>GRAPEVINES: DO NOT HARVEST FOR 4 WEEKS AFTER APPLICATION.</p> <p>BARLEY, WHEAT: Harvest (H): DO NOT HARVEST FOR 6 WEEKS AFTER APPLICATION. Grazing (G): DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 21 DAYS AFTER APPLICATION.</p> <p>TURF: GRAZING (G): DO NOT GRAZE TREATED AREAS OR FEED TURF CLIPPINGS FROM TREATED AREAS TO ANIMALS INCLUDING POULTRY.</p>
Trade Advice:	<p>Export Trade Advice</p> <p>MRLs or import tolerances do not exist in all markets for produce treated with Surefire Azlan, or livestock that have been grazing on treated crops. If you are growing produce or grazing livestock destined for export, please consult with PCT Holdings Pty Ltd for the latest information on MRLs and import tolerances before using Surefire Azlan.</p>
General Instructions:	<p>GENERAL INSTRUCTIONS</p> <p>FOLIAR DISEASES ON WHEAT AND BARLEY CROPS</p> <p>Do not apply to wheat and barley crops more than once per season (630 mL/ha rate) or more than twice per season (315 mL/ha rate). Treatment will give approximately three weeks disease suppression. Economic responses may not be gained by spraying crops past flowering stage. The effects of fungicide application will not be clearly seen for 7-10 days after application.</p> <p>MIXING</p> <p>Prior to pouring, shake container vigorously, then add the required quantity of Surefire Azlan Fungicide to water in the spray vat while stirring or with agitators in motion. Rinse the empty container with water and add rinsings to spray tank.</p> <p>APPLICATION</p> <p>Grapevines</p> <p>Dilute Spraying: Use a sprayer designed to apply high volumes of water up to the point of run-off and matched to the crop being sprayed. Set up and operate the sprayer to achieve even coverage throughout the crop canopy. Apply sufficient water to cover the crop to the point of runoff. Avoid excessive run-off. The required water volume may be determined by applying different test volumes, using different settings on the sprayer, from industry guidelines or expert advice. Add the amount of product specified in the Directions for Use table for each 100 L of water. Spray to the point of run-off. However, if greater than 1000 L/ha is required to achieve point of run-off, adjust the amount of product added for each 100 L of water to ensure no more than 1.0 L/ha product is applied. The required dilute spray volume will change and the sprayer set up and operation may also need to be changed, as the crop grows.</p> <p>Concentrate Spraying: Use a sprayer designed and set up for concentrate spraying (that is a sprayer which applies water volumes less than those required to reach the point of run-off) and matched to the crop being sprayed. Set up and operate the sprayer to achieve even coverage throughout the crop canopy using your chosen water volume. Determine an appropriate dilute spray volume (see Dilute spraying above) for the crop canopy. This is needed to calculate the concentrate mixing rate. The mixing rate for concentrate spraying can then be calculated in the following way:</p> <p>Example only</p> <ol style="list-style-type: none"> 1. Dilute spray volume as determined above: for example 1500 L/ha 2. Your chosen concentrate spray volume: for example 500 L/ha 3. The concentration factor in this example is: $3 \times$ (i.e. $1500 \text{ L} \div 500 \text{ L} = 3$) 4. If the dilute label rate is 100 mL/100 L, then the concentrate rate becomes 3×100, that is 300 mL/100 L of concentrate spray. <p>The chosen spray volume, amount of product per 100 L of water, and the sprayer set up and operation may need to be changed as the crop grows.</p> <p>DO NOT use a concentrate rate higher than that specified in the Critical Comments.</p>

	<p>For further information on concentrate spraying, users are advised to consult relevant industry guidelines, undertake appropriate competency training and follow industry Best Practices.</p> <p>Barley and Wheat Apply a medium spray quality by both aerial application and ground equipment. Aircraft should fly as low as possible under the prevailing conditions to minimise drift. Aerial application MUST BE carried out with closed mixing/loading.</p> <p>Turf Apply by ground application equipment only. Ensure even application in order to achieve even disease control. Avoid overlapping sprays. Leaf and Crown Diseases: Application volume for leaf and crown diseases (Anthracnose, Dollar Spot, Helminthosporium diseases, Winter Fusarium and Brown Patch) should be adequate to ensure thorough and even coverage of the turf leaves and penetration to the crowns. Ideal application volume should be 350 to 500 L/ha. For best results use medium [XR Teejet* (11004 or 10005)] to coarse [Turbo Teejet* or AIXR Teejet* (11004 or 11005)] nozzles, at 5 km/h and 3 bar pressure. In higher cut turf (≥ 15 mm) a significant spray shielding effect can occur, impacting negatively on spray penetration and even coverage at low application volumes.</p> <p>Fairy Ring: Application volume should be as high as possible (approximately 1000 L/ha) to ensure placement close to the soil surface. When lower application volumes are used, washing in should commence as soon as possible after application. For best results use extremely coarse droplets [Turbo Floodjet* (TF5) or TurfJet* (TTJ10)] and total application volume of approximately 1000 L/ha. Preferably spray onto wet or dewy grass. Irrigate with 6 to 10 mm of water commencing within 1 hour of application.</p>
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Resistance Warning:	<p>FUNGICIDE RESISTANCE WARNING</p> <p>GROUP 3 11 FUNGICIDE</p> <p>SUREFIRE Azlan Fungicide is a member of the DMI and quinone outside inhibitors (Qols) group of fungicides. For fungicide resistance management the product is both a Group 3 and a Group 11 fungicide. Some naturally occurring individual fungi resistant to SUREFIRE Azlan Fungicide and other Group 3 and/or Group 11 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 and/or Group 11 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, PCT Holdings Pty Ltd accepts no liability for any losses that may result from failure of SUREFIRE Azlan Fungicide to control resistant fungi.</p>
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Precautions:	<p>Re-Entry or Re-handling statement Do not allow entry into treated areas until the spray has dried unless wearing cotton overalls buttoned to the neck and wrist (or equivalent clothing) and chemical resistant gloves. Clothing must be laundered after each day's use. For treated grapevines, unless wearing cotton overalls buttoned to the neck and wrist (or equivalent clothing) and chemical resistant gloves, do not allow entry into treated areas to conduct the stated activities for the following periods:</p> <p>Pruning hand, scouting, weeding hand, transplanting, bird control, trellis repair, propagating and irrigation (hand set) Until spray is dried Harvesting hand, leaf pulling and tying/training 13 days Girdling and turning 20 days</p> <p>WARNING</p>
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	<ul style="list-style-type: none"> • SUREFIRE Azlan Fungicide is extremely phytotoxic to certain apple varieties. • AVOID SPRAY DRIFT. Extreme care must be used to prevent injury to apple trees. • DO NOT spray SUREFIRE Azlan Fungicide where spray drift may reach apple trees. • DO NOT spray when conditions favour drift beyond the area intended for application. Conditions that may contribute to drift include thermal inversions, excessive wind speed, certain sprayer nozzle/pressure combinations, small spray droplet size etc. • DO NOT use spray equipment that has been previously used to apply SUREFIRE Azlan Fungicide to spray apple trees. Even trace amounts can cause unacceptable phytotoxicity. • Airblast application MUST BE carried out with enclosed cab equipment.
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Protections:	<p>PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT</p> <p>Very toxic to aquatic life. DO NOT contaminate streams, rivers or watercourses with the chemical or used containers.</p>
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Storage and Disposal:	<p>Store in the closed, original container in a cool, well-ventilated area. Do not store for prolonged periods in direct sunlight.</p> <p>Triple rinse containers before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and deliver empty packaging 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.</p> <p>For Refillable containers: Empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage.</p>
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Safety Directions:	<p>Harmful if swallowed. May irritate the eyes. Avoid contact with the eyes. When opening the container, preparing spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and elbow-length chemical resistant gloves. When opening the container and preparing the product for aerial spraying equipment, wear cotton overalls over normal clothing, buttoned to the neck and wrist and elbow-length chemical resistant gloves. Wash hands after use. After each day's use wash gloves and contaminated clothing.</p> <p>The above Safety Directions should be combined with the following engineering controls:</p> <ul style="list-style-type: none"> • Aerial application MUST BE carried out with closed mixing/loading.
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First Aid Instructions:	<p>If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 131126; New Zealand 0800 764 766.</p>
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First Aid Warnings:	
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RESTRAINTS

DO NOT apply Surefire Azlan to home lawns (turf) or any other residential turf.

DO NOT apply if rain is expected within 48 hours.

DO NOT use this product through any type of irrigation system or ultra-low volume spray system.

DO NOT apply using spraying equipment carried on the back of the user.

SPRAY DRIFT RESTRAINTS

Specific definitions for terms used in this section of the label can be found at www.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 tables 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 hazardous surface temperature inversion conditions present at the application site during the time of application. Surface temperature inversion conditions exist most evenings one to two hours before sunset and persist until one to two hours after sunrise.

GROUND APPLICATION

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	Mandatory downwind buffer zones				
	Bystander areas	Natural aquatic areas	Pollinator areas	Vegetation areas	Livestock areas
Up to 630 mL/ha	0 metres	5 metres	0 metres	0 metres	0 metres
Up to 4 L/ha	0 metres	20 metres	0 metres	60 metres	0 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.
- 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

Application rate	Mandatory downwind buffer zones				
	Bystander areas	Natural aquatic areas	Pollinator areas	Vegetation areas	Livestock areas
Up to 1000 mL/ha	0 metres	5 metres	0 metres	0 metres	0 metres

AERIAL APPLICATION

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 height 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

Application rate	Wind Speed	Mandatory downwind buffer zones					
		Bystander areas	Natural aquatic areas		Pollinator areas	Vegetation areas	Livestock areas
			Fixed wing	Helicopter			
Up to 630 mL/ha	3 to 8 km/hr	0 metres	60 metres	20 metres	0 metres	0 metres	0 metres
	8 to 14 km/hr	0 metres	60 metres	40 metres	0 metres	0 metres	0 metres
	14 to 20 km/hr	0 metres	60 metres	40 metres	0 metres	0 metres	0 metres

DIRECTIONS FOR USE

Table 1. Grapevines

CROP	DISEASE	RATE	WHP	CRITICAL COMMENTS
Grapevines	Powdery Mildew (<i>Erysiphe necator</i>) (formerly <i>Uncinula necator</i>)	Dilute Spraying: 65 or 100 mL/100 L Concentrate spraying: 1 L/ha	H 4 weeks	<p>Apply Surefire Azlan Fungicide thoroughly as part of a season-long spray program targeting the following growth stages:</p> <ol style="list-style-type: none"> 1. When shoots are 20 cm long. 2. Pre-flowering. 3. Flowering. 4. After fruit set. 5. Before bunches close. <p>Use the lower rate prior to flowering (before E-L 19) or under low disease pressure. Apply the higher rate from the start of flowering (from E-L 19) and under conditions of high disease pressure. Apply by dilute or concentrate spraying equipment. Apply the same total amount of product to the target crop whether applying this product by dilute or concentrate spraying methods. DO NOT apply in volumes less than 250 L/ha. DO NOT apply at concentrations greater than 4X maximum label rate. This use is subject to a CropLife Fungicide Resistance Management Strategy: DO NOT apply more than two sprays of Surefire Azlan Fungicide per season. DO NOT use Surefire Azlan Fungicide curatively.</p>
	Downy Mildew (<i>Plasmopara viticola</i>)	Dilute spraying: 100 mL/ 100 L Concentrate spraying: 1 L/ha		<p>Apply Surefire Azlan Fungicide as part of a seasonal preventative spray program commencing when shoots are approximately 20 cm long. Use Surefire Azlan Fungicide in rotation with other mode of action fungicides on a 7-21 day spray interval. Under conditions of high disease pressure and/or at critical timings i.e. during flowering; ensure that Surefire Azlan Fungicide is applied in rotation with fungicides from a different mode of action group.</p>
	Botrytis Bunch Rot (<i>Botrytis cinerea</i>)			<p>When Surefire Azlan Fungicide is used in a seasonal spray programme it will provide control of Botrytis additional to that of specific botryticides. Under conditions of high disease pressure, Surefire Azlan Fungicide should not be used for Botrytis control particularly at critical timings such as 80 -100% capfall and pre-harvest. This use is subject to a CropLife Fungicide Resistance Management Strategy: Apply Surefire Azlan Fungicide preventatively. DO NOT apply more than two sprays per season of Surefire Azlan Fungicide or any other Group 11 fungicide. If three or fewer Botrytis sprays are applied in a season, use no more than one spray of Surefire Azlan Fungicide during the season. If four or more Botrytis sprays are to be applied in a season, up to two Surefire Azlan Fungicide sprays can be applied per season.</p>

Table 2. Barley and Wheat

CROP	DISEASE	APPLICATION	RATE/ha	WHP	CRITICAL COMMENTS
Barley	Scald	Ground Application: Apply in at least 50 L of water/ha Aerial Application: Apply in at least 10 L of water/ha	315 mL	H 6 weeks G 21 days	Apply when conditions favour disease development and preferably prior to the development of high levels of disease in the crop. Aim to apply from late tillering to early jointing if disease is present or conditions favour disease development. Regularly monitor the crop from 3 - 4 weeks after application for signs of re-infection.
	Leaf Rust, Powdery Mildew		315 ml or 630 mL		Apply when conditions favour disease development and preferably prior to the development of high levels of disease in the crop. Aim to apply from late tillering to early jointing if disease is present or conditions favour disease development. Regularly monitor the crop for 3 - 4 weeks after application for signs of re-infection.
	Net Blotch (suppression only)				Use higher rate when longer disease control is required.
Wheat	Leaf Rust, Septoria Nodorum Blotch, Stripe Rust, Yellow Leaf Spot, Septoria Tritici Blotch				Apply when conditions favour disease development and prior to development of high disease levels in the crop. Aim to apply between stem elongation and early head emergence. Regularly monitor the crop for 3 - 4 weeks post-application. Repeat spraying may be required, particularly if infection occurs early. For repeat spraying, apply no more than twice per season at the lower rate. Use the high rate under higher disease pressure and when longer residual control is required.
	Stem Rust				Apply when conditions favour disease development or if more than 5% of stems become infected between full flag leaf emergence to late flowering. Apply preferably prior to development of high disease levels in the crop. Regularly monitor the crop after application for signs of re-infection. Where Stem Rust is the major disease yield responses are usually optimised by delaying application until full head emergence and using the higher rate. In severe cases, if a majority of stems are infected prior to full head emergence, apply at 315 mL/ha as soon as possible. If required, apply 315 mL/ha again after 3 weeks when heads are fully emerged.

H=harvest, G=grazing

Table 3 Turf

SITUATION	DISEASE	RATE	CRITICAL COMMENTS
Turf including golf greens, tees and fairways, bowling clubs, sports fields and racetracks	Dollar Spot (<i>Sclerotinia homeocarpa</i>) Helminthosporium Disease (<i>Bipolaris</i> , <i>Drechslera</i> and <i>Exserohilum</i> spp.) Anthracnose (<i>Colletotrichum</i> spp.) Winter Fusarium (<i>Microdochium nivale</i>) Brown Patch (<i>Rhizoctonia solani</i>)	2 - 3 L/ha	Apply in a sufficient volume of water to achieve thorough coverage of all foliage and plant crowns. Apply Surefire Azlan on a 21-28 day interval as part of a season-long preventative spray program for turf disease management. Use the higher rate and shorter interval when conditions are favourable for disease development. Refer to application instructions for more information on targeting foliar and crown diseases. DO NOT apply more than two consecutive sprays Surefire Azlan before rotating to a different mode of action fungicide. DO NOT apply more than three sprays of Surefire Azlan per season.
	Fairy Ring (Basiomycete fungi)	3 -4 L/ha	Apply to green areas where fairy ring has previously occurred. Use the low rate from the end of October to early November (prior to dry conditions) and reapply after 30 days if required. If disease symptoms are present at the time of application, use the high rate and re-apply 30 days after the first application. Refer to application instructions for more information on targeting Fairy Ring. DO NOT apply more than two consecutive sprays of Surefire Azlan. DO NOT apply more than three sprays of Surefire Azlan per season.

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