



Product Name: Surefire Invictus 500 WG Fungicide

APVMA Approval No: 85778 / 123736

Label Name:	Surefire Invictus 500 WG 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: Status: APPROVED	ACTIVE CONSTITUENT: 500 g/kg TRIFLOXYSTROBIN
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Mode of Action: Status: APPROVED	<table><tr><td>GROUP</td><td>11</td><td>FUNGICIDE</td></tr></table>	GROUP	11	FUNGICIDE
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Statement of Claims: Status: APPROVED	For the control of certain diseases of apples, grapevines, pears and strawberries as specified in the DIRECTIONS FOR USE table.
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Net Contents: Status: APPROVED	1 kg 5 kg
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Restraints: Status: APPROVED	RESTRAINTS DO NOT mix this product with any type of spray additive in any crop. DO NOT apply by air to apples, pears, grapevines or strawberries.
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Directions for Use: Status: APPROVED	
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Other Limitations: Status: APPROVED	
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Withholding Periods:	WITHHOLDING PERIODS:
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Status: APPROVED	<p>Apples, pears, grapes: DO NOT HARVEST FOR 5 WEEKS AFTER APPLICATION</p> <p>Strawberries: DO NOT HARVEST FOR 1 DAY AFTER APPLICATION</p>
<p>Trade Advice:</p> <p>Status: APPROVED</p>	<p>Export of Treated Produce</p> <p>Maximum Residue Limits (MRLs) may be lower or not be established in export markets. Check with your Industry Association or PCT Holdings Pty Ltd prior to using this product on crops destined for export.</p> <p>Apples, Pears, Strawberries and Table Grapes: If you are growing apples, pears or strawberries for export, or table grapes for export (either fresh or dried), see the comment under Export Harvest Interval.</p> <p>Wine Grapes: Where this product will be used on grapes that will be used to produce wine destined for export markets, seek advice from the Australian Wine Research Institute or PCT Holdings Pty Ltd to ensure the wine will meet the requirements of the intended importing country.</p> <p>EXPORT HARVEST INTERVALS:</p> <p>Treated crop commodities destined for export may require extra time being allowed between application and harvest, to be accepted in some export markets. Before you use this product, you are advised to contact PCT Holding Pty Ltd and/or your industry body about any potential trade issues and their management.</p>
General Instructions:	<p>GENERAL INSTRUCTIONS</p> <p>Compatibility</p> <p>Apples, pears and grapevines: DO NOT mix Surefire Invictus 500 WG with surfactants as damage to flowers and russetting may occur. Do not mix concentrates together but add each to the spray tank separately. As formulations of other manufacturers' products are beyond the control of PCT Holdings Pty Ltd, all mixtures should be tested prior to mixing commercial quantities. As changes in climatic conditions can alter the sensitivity of plants to mixtures of sprays, PCT Holdings Pty Ltd cannot be responsible for the behaviour of such mixtures.</p> <p>Mixing and Application</p> <p>Apples, Pears and Grapes</p> <p>Surefire Invictus has demonstrated good crop safety, however, not all varieties have been tested. As some varieties may be particularly sensitive to chemical sprays, it is advisable to treat only a small number of plants first, in order to ascertain their reaction before treating the whole target crop.</p> <p>Add the required amount of product directly to the spray tank and mix well. Apply only as a ground application, by dilute or concentrate spray methods.</p> <p>Tank Mixing: When mixing Surefire Invictus 500 WG and other water dispersible granule (WG) or wettable powder (WP) formulations, ensure they are added and mixed well prior to adding emulsifiable concentrate (EC) or suspension concentrate (SC) products. Wettable powder (WP) formulations should be pre-mixed separately and then added to the spray tank.</p> <p>Dilute Spraying (apples, pears and grapevines)</p> <ul style="list-style-type: none"> • 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 run-off. 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. • 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>Concentrate Spraying (apples, pears and grapevines)</p>

- 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:

EXAMPLE ONLY

1. Dilute spray volume as determined above: For example 1000 L/ha
 2. Your chosen concentrate spray volume: For example 250 L/ha
 3. The concentration factor in this example is: 4 X (i.e. $1000 \text{ L} \div 250 \text{ L} = 4$)
 4. If the dilute label rate is 10 g/100 L, then the concentrate rate becomes 4 x 10, that is 40 g/100 L of concentrate spray.
- 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.
 - Do not use a concentrate rate higher than that specified in the Critical Comments.
 - For further information on concentrate spraying, users are advised to consult relevant industry guidelines, undertake appropriate competency training and follow industry Best Practices.

Strawberries

Add the required amount of product to half of the water in the spray tank. Then add the remainder of the water and mix well. Apply at least 500 L of spray mixture per hectare.

Resistance Warning:
Status: APPROVED

Fungicide Resistance Warning GROUP 11 FUNGICIDE

Surefire Invictus 500 WG is a member of the strobilurin group of fungicides. For fungicide resistance management Surefire Invictus 500 WG is a Group 11 fungicide. Some naturally occurring individual fungi resistant to the product and other 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 or other 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 the failure of this product to control resistant fungi.

Resistance Management Strategy

Surefire Invictus 500 WG may be subject to specific resistance management strategies. For further information contact your local supplier, PCT Holdings Pty Ltd representative, local agricultural department agronomist or visit www.croplifeaustralia.org.au.

Precautions:
Status: APPROVED

PRECAUTIONS

Re-entry

DO NOT allow entry into treated areas until the spray has dried, unless wearing cotton overalls buttoned to the neck and wrist, a washable hat and chemical resistant gloves. Clothing must be laundered after each day's use.

Caution

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

Protections: Status: APPROVED	<p>PROTECTION OF LIVESTOCK Low hazard to bees – product may be applied to plants at any time of day. DO NOT allow stock to graze in any treated areas.</p> <p>PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT Dangerous to fish and other aquatic organisms. DO NOT apply if heavy rain or storms are forecast to occur within the immediate areas. DO NOT apply under weather conditions or from spraying equipment which could be expected to cause spray to drift onto adjacent areas, particularly streams, rivers or other bodies of water. DO NOT contaminate streams, rivers or waterways with the chemical or used containers.</p>
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Storage and Disposal: Status: APPROVED	<p>STORAGE AND DISPOSAL 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>
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Safety Directions: Status: APPROVED	<p>SAFETY DIRECTIONS Will irritate the skin. Avoid contact with skin. When opening the container, preparing spray and using the prepared spray, wear cotton overalls buttoned to the neck and wrist, a washable hat and elbow-length PVC gloves. Wash hands after use. After each day's use, wash gloves and contaminated clothing.</p>
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First Aid Instructions: Status: APPROVED	<p>FIRST AID If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 13 11 26, New Zealand 0800 764 766.</p>
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First Aid Warnings:	
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DIRECTIONS FOR USE

CROP	DISEASE	RATE	CRITICAL COMMENTS
Apples Pears	Powdery mildew of apples Protective control of: Apple scab, Pear scab	Dilute spraying 10 g/100 L water Concentrate Spraying Refer to the Mixing/ Application section	This use is subject to a CropLife Australia resistance management strategy. Follow a complete disease management program for scab by rotating with fungicides from unrelated chemical groups according to the CropLife Australia fungicide resistance management guidelines. Surefire Invictus 500 WG should be applied as a block of three treatments at 7 to 10 day intervals over flowering and into early fruit development. Use short spray intervals when disease pressure is high. DO NOT apply more than three applications of Surefire Invictus 500 WG per season (part of the CropLife Australia resistance management strategy). When used over flowering, apply Surefire Invictus 500 WG alone. Apply with a DMI (Group 3) scab fungicide if intervals are longer than 10 days. Apply by dilute or concentrate spraying equipment. Apply the same amount of product to the target crop whether applying this product by dilute or concentrate spraying methods. Do not use in equipment that requires rates greater than 50 g/100 L of water (5X).
Grapevines	Powdery mildew, Suppression of downy mildew	Dilute spraying 15 g/100 L water Concentrate Spraying Refer to the Mixing/ Application section.	Apply thoroughly as part of a powdery mildew spray program. The critical crop timing for powdery mildew control is from early flowering to pre bunch closure. DO NOT allow spray intervals in the above program to exceed 14 days. DO NOT apply more than two applications of Surefire Invictus 500 WG per season. Apply by dilute or concentrate spraying equipment. Apply the same amount of product to the target crop whether applying this product by dilute or concentrate spraying methods. Do not use in equipment that requires rates greater than 75 g/100 L of water (5X). Do not apply in water volumes less than 250 L/ha. This use is subject to a CropLife Australia resistance management strategy. For further information refer to the CropLife Australia website: www.croplifeaustralia.org.au

CROP	DISEASE	RATE	CRITICAL COMMENTS
Strawberries	Powdery mildew (<i>Sphaerotheca macularis</i>)	<p>Dilute spraying 20-25 g/100 L Use when spray volume exceeds 800 L/ha OR Low volume 200-300 g/ha Use when spray volume is less than 800 L/ha. Do not apply volumes less than 500 L/ha</p>	<p>This use is subject to a CropLife Australia resistance management strategy. Reduce background levels of disease by removing infected plant debris and/or rotted fruit throughout the season. A fungicide program for the control of powdery mildew should commence from early flowering. Apply Surefire Invictus strategically as part of a program when conditions favour disease development. DO NOT apply consecutive Surefire Invictus treatments, including from one season to the next. Always alternate Surefire Invictus with a registered fungicide of a different chemical group. Do not allow the interval between Surefire Invictus and an alternative group fungicide to exceed 10 days. Use a shorter application interval when disease pressure is high. Ensure adequate penetration of the canopy and coverage of foliage and flowers and/or fruit. DO NOT apply more than 3 applications of Surefire Invictus 500 WG per season. Use the higher rate where disease pressure is high. Addition of a non-ionic wetting agent is not required.</p>

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