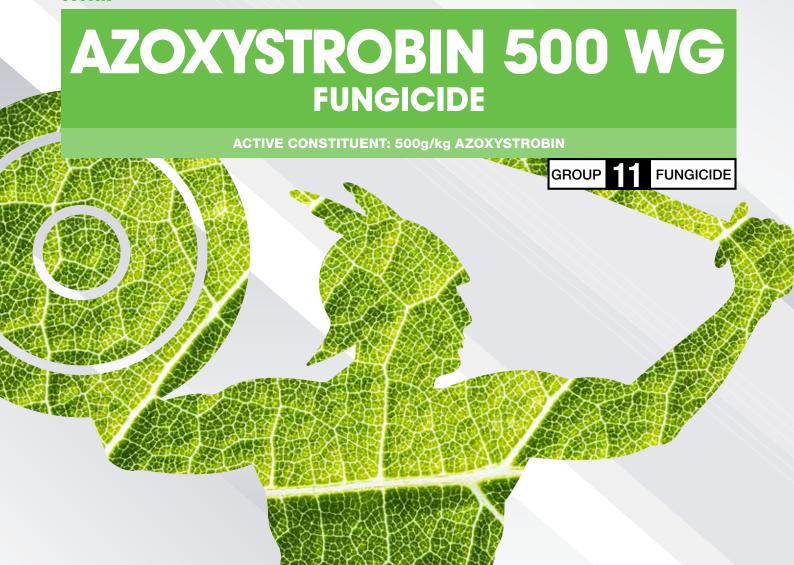
# **CAUTION**

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

TITAN



For the control of various diseases of Grapes, Potatoes, Tomatoes, Cucurbits, Avocados, Mangoes, Passionfruit and Poppies as per the Directions for Use table.

APVMA Approval No.: 67322/56497 Pack Size: 1kg; 2kg; 3kg; 5kg; 10kg



TITAN AG Pty Ltd | ABN 57 122 081 574 15/16 Princes Street, Newport NSW 2106 Tel (02) 9999 6655 | Fax (02) 9999 0483 titanag.com.au

IN A TRANSPORT EMERGENCY

DIAL OOO

POLICE OR FIRE BRIGADE

TRANSPORT AND HANDLING
NOT A DANGEROUS GOOD
ACCORDING TO THE AUSTRALIAN
DANGEROUS GOODS (ADG) CODE
FOR TRANSPORT BY ROAD AND RAIL

# **DIRECTIONS FOR USE**

 $\textbf{Restraints:} \ \mathsf{DO} \ \mathsf{NOT} \ \mathsf{apply} \ \mathsf{by} \ \mathsf{air}, \ \mathsf{except} \ \mathsf{on} \ \mathsf{Potatoes}.$ 

# TREE AND VINE CROPS

TREE AND VINE CROPS							
RATE In the following table: Tree and Vine Crops all rates given are for dilute spraying. For concentrate spraying, refer to the Application section.				CRITICAL COMMENTS For all uses in the table Tree and Vine Crops: 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.  When applying TITAN Azoxystrobin 500 WG Fungicide through low volume application equipment, DO NOT use a concentrate factor greater than 4X. In these cases adequate			
CROP	DISEASE	RATE/100L	WHP	coverage of all plant surfaces is still required to achieve control of diseases.			
Avocado	Stem End Rot, Anthracnose	40g	7 days	Apply TITAN Azoxystrobin 500 WG Fungicide in a preventative fungicide program containing fungicides from a different chemical group. For best results commence the disease control program with an approved fungicide from an alternative chemical group, then apply 1 application of TITAN Azoxystrobin 500 WG Fungicide during early fruit set. Follow with applications of an approved fungicide from a different chemical group. Apply 2 final applications of TITAN Azoxystrobin 500 WG Fungicide at 14 to 28 day intervals with the final spray applied 7 days prior to harvest. Ensure thorough spray coverage.  Resistance Management  Disease control may be reduced if strains of pathogens less sensitive to TITAN Azoxystrobin			
				500 WG Fungicide develop. DO NOT use TITAN Azoxystrobin 500 WG Fungicide curatively. If consecutive applications of TITAN Azoxystrobin 500 WG Fungicide are used they must be followed by at least the same number of applications of fungicide(s) from a different group(s) before TITAN Azoxystrobin 500 WG Fungicide is used again in that crop in the current or following season. Apply a maximum of 3 applications of TITAN Azoxystrobin 500 WG Fungicide per season. DO NOT apply more than 2 consecutive applications of TITAN Azoxystrobin 500 WG Fungicide. DO NOT start the disease control program with TITAN Azoxystrobin 500 WG Fungicide.			
Grapes Table, wine, dried	Powdery Mildew (Uncinular necator), Downy Mildew (Plasmopara viticola), Botrytis Bunch Rot† (Botrytis cinerea)	38 to 50g	14 days	Application Method and Rate Apply in a sufficient volume of water to achieve thorough coverage of all foliage and fruit. The volume of water required to achieve this will depend on the stage of vine growth and vigour. Ensure thorough coverage. Adjust spray nozzles to direct spray droplets to the canopy present. Apply the higher rate of application in the following circumstances:  1. Where humid conditions favour Powdery Mildew infection, particularly on susceptible varieties.  2. At the start of the season when there has been a heavy carry over of Powdery Mildew infection (flag shoots are present).  Spray Timing and Interval Apply 2 or 3 consecutive applications at 10 to 16 day intervals at any time between early shoot growth and 14 days before harvest. Use the recommended shorter interval during periods when climatic conditions are favourable for disease infection.  † Botrytis Bunch Rot TITAN Azoxystrobin 500 WG Fungicide must not be used alone for Botrytis control at critical times such as 80 to 100% capfall and pre-harvest. It must be tank mixed with or substituted by a specific Botryticide at these critical times. When TITAN Azoxystrobin 500 WG Fungicide is used in a seasonal spray program it will provide control of Botrytis additional to that of specific Botryticides such as Bravo®.  Resistance Management Disease control may be reduced if strains of pathogens less sensitive to TITAN Azoxystrobin 500 WG Fungicide develop. DO NOT use TITAN Azoxystrobin 500 WG Fungicide curatively.			
				As a precaution, DO NOT apply more than a total of 3 applications of TITAN Azoxystrobin 500 WG Fungicide per crop in 1 season. If consecutive applications of TITAN Azoxystrobin 500 WG Fungicide are used they must be followed by at least the same number of applications of fungicide(s) from a different group(s) before TITAN Azoxystrobin 500 WG Fungicide is used again in that crop in the current or following season. DO NOT use TITAN Azoxystrobin 500 WG Fungicide for disease control in grapevine nurseries.			
Mango	Stem End Rot, Anthracnose	40g	3 days	Apply TITAN Azoxystrobin 500 WG Fungicide in a preventative fungicide program containing fungicides from a different chemical group. For best results apply 1 to 2 applications of TITAN Azoxystrobin 500 WG Fungicide at flowering and early fruit set, at no less than 14 day intervals. Follow with applications of an approved fungicide from a different chemical group. Further applications of TITAN Azoxystrobin 500 WG Fungicide may be applied at 21 days and 3 to 7 days prior to harvest. Ensure thorough spray coverage.  Resistance Management  Disease control may be reduced if strains of pathogens less sensitive to TITAN Azoxystrobin 500 WG Fungicide develop. DO NOT use TITAN Azoxystrobin 500 WG Fungicide are used they must be followed by at least the same number of applications of fungicide(s) from a different group(s) before TITAN Azoxystrobin 500 WG Fungicide is used again in that crop in the current or following season. Apply a maximum of 3 applications of TITAN Azoxystrobin 500 WG Fungicide per season. DO NOT apply more than 2 consecutive applications of TITAN Azoxystrobin 500 WG Fungicide. DO NOT start the disease control program with TITAN Azoxystrobin 500 WG Fungicide.			
	<u> </u>		L				



CROP	DISEASE	RATE/100L	WHP	CRITICAL COMMENTS
Passionfruit	Alternaria, Cladosporium	40g	1 day	Apply TITAN Azoxystrobin 500 WG Fungicide in a preventative fungicide program containing fungicides from a different chemical group. For best results apply 2 to 3 applications of TITAN Azoxystrobin 500 WG Fungicide at 14 day intervals over flowering. Follow with applications of an approved fungicide from a different chemical group. Apply a further 1 to 2 applications of TITAN Azoxystrobin 500 WG Fungicide finishing 1 day prior to harvest. Ensure thorough spray coverage.  Resistance Management  Disease control may be reduced if strains of pathogens less sensitive to TITAN Azoxystrobin
				500 WG Fungicide develop. DO NOT use TITAN Azoxystrobin 500 WG Fungicide curatively. DO NOT apply more than 1/3 of the total number of fungicide applications. For example, if the total number of fungicides applied to the crop is 9, DO NOT apply more than 3 applications of TITAN Azoxystrobin 500 WG Fungicide. DO NOT exceed 5 applications of TITAN Azoxystrobin 500 WG Fungicide per crop. DO NOT apply more than 2 consecutive applications of TITAN Azoxystrobin 500 WG Fungicide. DO NOT start the disease control program with TITAN Azoxystrobin 500 WG Fungicide.
Poppies	Downy Mildew	376g/ha	6 weeks	Apply TITAN Azoxystrobin 500 WG Fungicide in a preventative fungicide program containing fungicides from a different chemical group.  Apply TITAN Azoxystrobin 500 WG Fungicide preventatively before disease symptoms appear. Ensure thorough spray coverage.
				Resistance Management Disease control may be reduced if strains of pathogens less sensitive to TITAN Azoxystrobin 500 WG Fungicide develop. DO NOT use TITAN Azoxystrobin 500 WG Fungicide curatively. Apply a maximum of 2 applications of TITAN Azoxystrobin 500 WG Fungicide per crop.
Potatoes	Early Blight (Target Spot)	152 to 200g/ha	-	Apply the higher rates when climatic conditions favour Early Blight or Late Blight infection and in crops with large canopies.
Potatoes				



CROP	DISEASE	RATE/100L	WHP	CRITICAL COMMENTS
Tomatoes except greenhouse	(Target Spot) (Alternaria solani)  Late Blight (Phytophthora infestans),	200g/ha or 20g/100L 248 to 304g/ha or 26 to 30g/100L	1 day	Application Apply in sufficient volume of water to achieve thorough coverage of all foliage. The volume of water required to achieve this will depend on the stage of growth of the tomatoes and the method of trellising which influences canopy volume. In the case of dilute spraying (g/100L) apply in the range of 400 to 500L/ha after transplanting and increase to 800 to 1000L/ha at full canopy. In the case of fully trellised tomatoes at full canopy, application volumes should be increased to 900L/ha to achieve these results with high volume spraying. For Late Blight and Sclerotinia control use the higher rates when climatic conditions are humid and mild, which favours disease infection.
				Spray Interval Consecutive applications should be applied at 7 to 14 day intervals commencing soon after transplanting and continuing up to fruit maturity. Use the recommended shorter application interval in the following circumstances:  1. Under humid weather conditions which are favourable for disease infection.  2. When there is rapid vegetative growth during the early part of the crop cycle.
				Resistance Management  Disease control may be reduced if strains of pathogens less sensitive to TITAN Azoxystrobin 500 WG Fungicide develop. Apply TITAN Azoxystrobin 500 WG Fungicide in a protective spray program. DO NOT wait until disease levels have built up to make applications as this reduces the effectiveness of control and increases the risk of resistance development.  As a precaution DO NOT apply more than 1/3 of the total fungicide sprays per crop as TITAN Azoxystrobin 500 WG Fungicide. A maximum of 3 consecutive applications of TITAN Azoxystrobin 500 WG Fungicide are to be applied. They must be preceded and followed by at least 3 applications of fungicide(s) from a different fungicide group(s) such as Bravo®, before TITAN Azoxystrobin 500 WG Fungicide is used again in that crop. Where Late Blight infection has occurred it is recommended that single sprays of TITAN Azoxystrobin 500 WG Fungicide be alternated with 2 sprays of Bravo or a fungicide(s) from another group(s). Where crops are grown successively alternation should continue between crops.
Cucurbits	Powdery Mildew (Sphaerotheca fuliginea), Downy Mildew (Pseudoperonospora cubensis) Gummy Stem Blight (Didymella bryoniae)	40 to 61g/100L	1 day	Apply the higher rate when climatic conditions favour Powdery or Downy Mildew infection and in crops with large canopies.  Application Apply in a sufficient volume of water to achieve thorough coverage of all foliage.
				The volume of water required to achieve this will depend on the stage of growth of the Cucurbits. For dilute spraying (g/100L), an application volume of 300L/ha is suggested where sprays are banded in the early part of the season, increasing to 1000L/ha as a broadcast spray in a vigorous crop at full canopy.
				Spray Interval Consecutive applications should be applied at 7 to 14 day intervals, commencing soon after transplanting and continuing up to fruit maturity. Use the recommended shorter application interval in the following circumstances:  1. Under humid weather conditions which are favourable for Powdery Mildew, Downy Mildew or Gummy Stem Blight infection.  2. When there is rapid vegetative growth during the early part of the crop cycle.
				Resistance Management Disease control may be reduced if strains of pathogens less sensitive to TITAN Azoxystrobin 500 WG Fungicide develop. Apply TITAN Azoxystrobin 500 WG Fungicide in a protective spray program. D0 NOT wait until disease levels have built up to make applications as this reduces the effectiveness of control and increases the risk of resistance development. As a precaution D0 NOT apply more than 1/3 of the total fungicide sprays up to a maximum of 4 sprays of TITAN Azoxystrobin 500 WG Fungicide per crop. A maximum of 2 consecutive applications of TITAN Azoxystrobin 500 WG Fungicide are to be applied. They must be preceded and followed by at least 2 applications of fungicide(s) from a different fungicide group(s) such as Bravo to control Downy Mildew and Gummy Stem Blight and Nimrod® to control Powdery Mildew, before TITAN Azoxystrobin 500 WG Fungicide is used again in that crop. Where crops are grown successively alternation should continue between crops.

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

WITHHOLDING PERIODS:

Avocados: DO NOT HARVEST FOR 7 DAYS AFTER APPLICATION.

Cucurbits, Passion fruit, Tomatoes: DO NOT HARVEST FOR 1 DAY AFTER APPLICATION.

Grapes: DO NOT HARVEST FOR 14 DAYS AFTER APPLICATION. Mangoes: DO NOT HARVEST FOR 3 DAYS AFTER APPLICATION. Poppies: DO NOT HARVEST FOR 6 WEEKS AFTER APPLICATION.

Potatoes: NOT REQUIRED WHEN USED AS DIRECTED.



#### **GENERAL INSTRUCTIONS**

#### **FUNGICIDE RESISTANCE WARNING**

TITAN Azoxystrobin 500 WG is a member of the Strobilurin and related products group of



fungicides. For fungicide resistance management the product 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, TITAN AG Pty Ltd accepts no liability for any losses that may result from the failure of this product to control resistant fungi.

#### **RE-ENTRY PERIODS**

DO NOT enter 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 all activities in grapes and high exposure activities in all other proposed crops the following re-entry statements apply:

- After treating Tomatoes, D0 N0T allow entry into treated areas for high
  exposure activities such as harvesting or pruning for 7 days, unless wearing
  cotton overalls buttoned to the neck and wrist (or equivalent clothing) and
  chemical resistant gloves. Clothing must be laundered after each days use.
- After treating Cucurbits, DO NOT allow entry into treated areas for high
  exposure activities such as harvesting or pruning for 14 days, unless wearing
  cotton overalls buttoned to the neck and wrist (or equivalent clothing) and
  chemical resistant gloves. Clothing must be laundered after each days use
- After treating Potatoes, DO NOT allow entry into treated areas for high
  exposure activities such as harvesting for 16 days, unless wearing cotton
  overalls buttoned to the neck and wrist (or equivalent clothing) and chemical
  resistant gloves. Clothing must be laundered after each days use.
- After treating Avocadoes, Mangoes and Passionfruit, DO NOT allow entry
  into treated areas for high exposure activities such as harvesting or pruning
  for 19 days, unless wearing cotton overalls buttoned to the neck and wrist
  (or equivalent clothing) and chemical resistant gloves. Clothing must be
  laundered after each days use.
- After treating Grapes, DO NOT allow entry into treated areas for low exposure activities such as scouting for 9 days, unless wearing cotton overalls buttoned to the neck and wrist (or equivalent clothing) and chemical resistant gloves. Clothing must be laundered after each days use.
- After treating Grapes, DO NOT allow entry into treated areas for high
  exposure activities such as harvesting or pruning for 27 days, unless wearing
  cotton overalls buttoned to the neck and wrist (or equivalent clothing) and
  chemical resistant gloves. Clothing must be laundered after each days use.

# PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS WARNING – TITAN Azoxystrobin 500 WG Fungicide is extremely phytotoxic to certain apple varieties.

**Drift Warning:** Extreme care must be used to prevent injury to Apple trees. DO NOT spray TITAN Azoxystrobin 500 WG Fungicide where spray drift may reach Apple trees. DO NOT spray under meteorological conditions or from spraying equipment, which could be expected to cause spray to drift onto nearby susceptible plants, adjacent crops, crop lands or pastures. Conditions which may contribute to drift include thermal inversions, excessive wind speed, certain sprayer nozzle/pressure combinations, small spray droplet size (150 microns or less) etc. DO NOT use spray equipment, which has been previously used to apply TITAN Azoxystrobin 500 WG Fungicide to spray Apple trees. Even trace amounts can cause unacceptable phytoxicity.

# PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT HIGHLY TOXIC TO AQUATIC LIFE. DO NOT contaminate streams, rivers or waterways with the chemical or used container.

DO NOT apply under weather conditions or from spraying equipment which could be expected to cause spray drift on adjacent areas, particularly wetlands, waterbodies or watercourses.

#### APPLICATION

DO NOT use concentrations exceeding 4X when applying through low volume application equipment, except when applying by air. In these cases adequate coverage of all plant surfaces is still required to achieve control of diseases.

#### MIXING

Fill tank 50 to 75% full then start agitation. Slowly pour granules into tank and maintain agitation throughout spraying. DO NOT pre-mix granules.

### **Application in Tree Crops and Vines**

**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 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 100L 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.

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:

#### Example only

- 1. Dilute spray volume as determined above: for example 1000L/ha
- 2. Your chosen concentrate spray volume: for example 500L/ha
- 3. The concentration factor in this example is:  $2 \times (ie\ 1000L \div 500L = 2)$
- 4. If the dilute label rate is 50g/100L, then the concentrate rate becomes 2 x 50, that is 100g/100L of concentrate spray.

The chosen spray volume, amount of product per 100L of water, and the sprayer set up and operation may need to be changed as the crop grows. For further information on concentrate spraying, users are advised to consult relevant industry guidelines, undertake appropriate competency training and follow industry Best Practices.

#### **COMPATIBILITY/TANK MIXING**

May be mixed in the spray vat with any one of the following products: Ambush®, Bravo®, Captan® WG, copper hydroxide, Dominex® 100, Dipel® DF, Karate® EC, Larvin® 375, Fortress® 500, Talstar® 80SC, Thiodan\*. A mixture of TITAN Azoxystrobin 500 WG Fungicide with more than one of these products or with any other product may be ineffective or may cause serious damage. The use of such a mixture is not recommended and would therefore be entirely at the user's risk. If tank mixes are to be used observe all directions, precautions and limitations on all products to be used.

**Note:** On some Tomato varieties tank mixtures of TITAN Azoxystrobin 500 WG Fungicide and Lorsban® 500 EC or Nitofol® or Supracide® or Lebaycid® or Kelthane® MF have been found to be phytotoxic. DO NOT tank mix these products with TITAN Azoxystrobin 500 WG Fungicide.

#### **EXPORT OF TREATED PRODUCE**

**Grapes:** While Maximum Residue Limits (MRL) have been set in many major wine export destinations, some export destinations have not finalised MRL applications. For further information regarding export tolerances please contact your winery, TITAN AG representative or the Australian Wine Research Institute.

**Other Crops:** While Maximum Residue Limits (MRL) have been set in many major export destinations, it should be noted that MRLs or Import tolerances may not be established in all export destinations. For further information regarding export tolerances please contact your export organisation or TITAN AG representative.

### 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 recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush or puncture or shred and deliver to an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500mm 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 Local, State or Territory government regulations. DO NOT burn empty containers or product.

#### SAFETY DIRECTIONS

Will irritate the eyes and skin. Avoid contact with eyes and skin. When opening the container and preparing spray, wear elbow-length PVC gloves, face shield or goggles. If product in eyes, wash it out immediately with water. Wash hands after use. After each day's use, wash gloves and face shield or goggles.

#### FIRST All

If poisoning occurs, contact a Doctor or Poisons Information Centre. Phone Australia 131126; New Zealand 0800 764 766.



#### **SAFETY DATA SHEET**

Additional information is listed in the safety data sheet (SDS). A safety data sheet for TITAN Azoxystrobin 500 WG Fungicide is available from TITAN AG Pty Ltd on request. Call Customer Service on (02) 9999 6655 or visit www.titanag.com.au

**CONDITIONS OF SALE:** TITAN AG Pty Ltd shall not be liable for any loss injury damage or death whether consequential or otherwise whatsoever or howsoever arising whether through negligence or otherwise in connection with the sale supply use or application of this product. The supply of this product is on the express condition that the purchaser does not rely on TITAN AG's skill or judgment in purchasing or using the same and every person dealing with this product does so at his own risk absolutely. No representative of TITAN AG Pty Ltd has any authority to add to or alter these conditions.

Additional statements required by Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia: Toxic if inhaled. Very toxic to aquatic life with long lasting effects. <a href="Precautionary Statements:">Precautionary Statements:</a> Avoid breathing dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. Avoid release to the environment. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor. Specific treatment (see on this label). Collect spillage. Store in a well-ventilated place. Keep container tightly closed. Store locked up.Dispose of contents/container in accordance with local/regional/national regulations.

