

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

TITAN

EPOXICONAZOLE 500 SC

FUNGICIDE

ACTIVE CONSTITUENT: 500g/L EPOXICONAZOLE

GROUP **3** FUNGICIDE

Crops: Barley, Oats, Wheat

Controls/Suppresses: Eyespot, Leaf Rust, Leaf Scald, Net Form of Net Blotch, Powdery Mildew, Septoria Nodorum Blotch, Septoria Leaf Blotch, Septoria Tritici Blotch, Spot Form of Net Blotch, Stem Rust, Stripe Rust and Yellow Spot as per the Directions for Use.

APVMA Approval No.: 90313/134505

Pack Size: 1L-110L



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IN A TRANSPORT EMERGENCY
DIAL 000
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

Restrictions: DO NOT exceed a total rate of 250mL/ha of TITAN Epoxiconazole 500 SC Fungicide in Wheat and Barley per growing season.
DO NOT apply more than two applications of TITAN Epoxiconazole 500 SC Fungicide 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

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 zone in the buffer zone table below provides 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 three 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.

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 zone' section) are observed.

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 metres or 25 per cent of wingspan or 25 zone of rotor diameter, whichever is the greatest, minimum distances between the application site and downwind sensitive areas (see 'Mandatory buffer zone' section) are observed.

MANDATORY BUFFER 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 zone shown in Table 1 below.

Table 1: Buffer zone for protection of the aquatic environment

For ground and aerial application	
Wind speed range at time of application	Mandatory downwind buffer zone
From 3 to 20 kilometres per hour	30 metres

CROP	DISEASE	RATE/ha	CRITICAL COMMENTS
			DO NOT exceed a total rate of 250mL/ha TITAN Epoxiconazole 500 SC Fungicide in a growing season.
Barley	Eyespot (<i>Oculimacula yallundae</i>) Suppression only	125mL	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>Rhynchosporium secalis</i>), Net Form of Net Blotch (<i>Pyrenophora teres f.sp. teres</i>), Spot Form of Net Blotch (<i>Pyrenophora teres f. sp. maculata</i>)	65 to 125mL	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 f.sp. 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>)	65mL	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	125mL	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 125mL	Apply when conditions favour disease development and prior to development of high levels of disease in the crop. Aim to apply 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.

CROP	DISEASE	RATE/ha	CRITICAL COMMENTS
Wheat – <i>continued</i>	Powdery Mildew (<i>Blumeria graminis f.sp. tritici</i>)	65 to 125mL	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.

TITAN EPOXICONAZOLE 500 SC FUNGICIDE + TITAN AZOXYSTROBIN 250SC FUNGICIDE

Observe the most conservative WHPs, re-application intervals and other instructions on the label of this and the mixture product.

DO NOT apply to Wheat and Barley crops more than once per season (640mL/ha rate) or more than twice per season (320mL/ha rate) and observe the equivalent re-application instructions on the mixture product label. 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.

Yield potential: Crops with potential yield under 2t/ha are unlikely to give economic responses to a fungicide spray except under conditions of very severe disease. Economic responses are most likely with crops with potential yield of over 3t/ha.

CROP	DISEASE	RATE	CRITICAL COMMENTS
Wheat	Leaf Rust (<i>Puccinia recondite</i> , <i>Puccinia triticina</i>), Stripe Rust (<i>Puccinia striiformis</i>), Septoria Nodorum Blotch (<i>Septoria nodorum</i>)	320-640mL TITAN Azoxystrobin 250SC Fungicide plus TITAN Epoxiconazole 500 SC Fungicide product at label rate	Apply when conditions favour disease development and preferably prior to development of the disease in the crop. Aim to apply between stem elongation and ear emergence complete (ZGS 32-59) if disease is present. DO NOT apply later than ZGS 59. Use the higher rates under higher disease pressure or when longer disease control is required. Ensure thorough coverage.
	Powdery Mildew (<i>Blumeria graminis f.sp. tritici</i>)		Apply when conditions favour disease development and prior to development of disease in the crop. Aim to apply during early tillering (ZGS 21-22) stage of the crop if disease is present. DO NOT apply later than ZGS 59. Repeat spraying may be required, particularly if infection pressure persists. Regularly monitor the crop from 3-4 weeks after the first application for signs of re-infection
Barley	Leaf rust (<i>Puccinia hordei</i>)	320-640mL TITAN Azoxystrobin 250SC Fungicide plus TITAN Epoxiconazole 500 SC Fungicide at label rate	Apply when conditions favour disease development and prior to development of disease in the crop. Aim to apply between stem elongation and ear emergence complete (Z32-59). DO NOT apply later than Z59. Apply the higher rate when disease is present on the top leaf or conditions are favourable for disease development at these stages of crop development.
	Net Form of Net Blotch (<i>Pyrenophora teres f.sp. teres</i>)		Apply when conditions favour disease development and prior to development of disease in the crop. Aim to apply between stem elongation and ear emergence complete (ZGS 32-59) if disease is present. DO NOT apply later than ZGS 59. Two applications of TITAN Azoxystrobin 250SC Fungicide at the lower rate may provide better control than a single application under certain conditions. If applying a 2-spray program only apply 320mL/ha per application, the first application at ZGS 31-32 if the disease is present. Aim to apply the second application around ZGS 37-39 but no later than ZGS 59, if infection pressure persists.
	Leaf Scald (<i>Rhynchosporium secalis</i>), Powdery Mildew (<i>Blumeria graminis f.sp. hordei</i>)		Apply when conditions favour disease development and prior to development of disease in the crop. Aim to apply between early tillering and flag leaf emergence (ZGS 21-39) if disease is present. DO NOT apply later than ZGS 59. Repeat spraying may be required, particularly if infection pressure persists. Regularly monitor the crop from 3-4 weeks after the first application for signs of reinfection.

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

WITHHOLDING PERIODS:

HARVEST: NOT REQUIRED WHEN USED AS DIRECTED.

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

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 TITAN Epoxiconazole 500 SC Fungicide. Additionally, some export markets have established MRLs different to those in Australia. If you are growing produce for export, please check with TITAN AG Pty Ltd or your produce exporter for the latest information on MRLs and import tolerances BEFORE using TITAN Epoxiconazole 500 SC Fungicide.

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

TITAN Epoxiconazole 500 SC 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

TITAN Epoxiconazole 500 SC Fungicide 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.

For tank mixtures with TITAN Azoxystrobin 250SC Fungicide: Half fill the spray tank with clean water and start agitation. Shake the closed TITAN Azoxystrobin 250SC Fungicide container. Whilst filling the remainder of the spray tank add the required amount of TITAN Azoxystrobin 250SC Fungicide, adding TITAN Epoxiconazole 500 SC Fungicide last. Maintain agitation until spraying is complete.

DO NOT leave the spray mix in the sprayer overnight.

APPLICATION

Application of TITAN Epoxiconazole 500 SC Fungicide with TITAN Wetter 1000 Wetting Agent (or equivalent formulation) at 200mL/100L may improve disease control in cereals, particularly at the lower application rate.

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

Aerial Application: Apply with suitable aircraft, set up and operated to apply fungicides to cereal crops in a minimum water volume of 20L/ha.

FUNGICIDE RESISTANCE WARNING

TITAN Epoxiconazole 500 SC Fungicide is a member of the DMI group of fungicides. For fungicide resistance management TITAN Epoxiconazole 500 SC Fungicide is a Group 3 fungicide. Some naturally occurring individual fungi resistant to TITAN Epoxiconazole 500 SC Fungicide 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, TITAN AG Pty Ltd accepts no liability for any losses that may result from the failure of this product to control resistant fungi. Uses of TITAN Epoxiconazole 500 SC Fungicide are subject to CropLife Australia Fungicide Resistance Management guidelines. Refer to the relevant guidelines prior to using TITAN Epoxiconazole 500 SC.

GROUP **3** FUNGICIDE

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 TITAN Epoxiconazole 500 SC Fungicide aerially to waterbodies, watercourses or wetlands. DO NOT contaminate streams, rivers or watercourses with the chemical or used containers.

STORAGE AND DISPOSAL

1-100 L: 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 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 relevant Local, State or Territory government regulations. DO NOT burn empty containers or product.

110 L: 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 TITAN AG Pty Ltd.

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 131 126; New Zealand 0800 764 766.

SAFETY DATA SHEET

Additional information is listed in the safety data sheet (SDS). A safety data sheet for TITAN Epoxiconazole 500 SC Fungicide is available from TITAN AG Pty Ltd on request. Call Customer Service on (02) 9999 6655 or visit 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: Suspected of causing cancer. May damage fertility or the unborn child. Toxic to aquatic life with long lasting effects. **Precautionary Statements:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. IF exposed or concerned: Get medical advice/attention. Collect spillage. Store locked up. Dispose of contents/container in accordance with local/regional/national regulations.

