

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

TITAN

TEBUCONAZOLE 430 SC

FUNGICIDE

ACTIVE CONSTITUENT: 430g/L TEBUCONAZOLE

GROUP **3** FUNGICIDE

For the control of Leaf Spot and Leaf Speckle on Bananas; Rust, Leaf Spot and Net Blotch on Peanuts; foliar diseases on cereal crops; other diseases on Beans, Peas, Onions, Papaw, Pyrethrum, Ryegrass, Grapevine and fescue seed and Sugarcane (var. Q124) crops as per the directions for use table.

APVMA Approval No.: 61649/128163

Pack Size: 10L; 20L



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 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

CROPS	DISEASE	APPLICATION	RATE	WHP	CRITICAL COMMENTS
Bananas (QLD, NSW, WA, NT only)	Leaf Spot (Yellow Sigatoka), Leaf Speckle, Black Sigatoka	Ground application: Apply by misting machine or airblast sprayer in a convenient volume of water Aerial application: Apply at least 20L of spray mixture per hectare	230mL/ha Add 3-6L water miscible oil/ha	1 day	Maintain good deleafing practices to reduce disease inoculum. Very old leaves, and leaves with advanced lesions should be removed, or infected parts of the leaf removed, prior to the application of TITAN Tebuconazole 430 SC Fungicide. Tropical areas (eg North QLD, NT, Ord River): Apply a regular schedule of protectant sprays. When conditions favour disease, apply a minimum of 2 and a maximum of 3 consecutive TITAN Tebuconazole 430 SC Fungicide sprays at 14 day intervals. DO NOT apply more than 6 TITAN Tebuconazole 430 SC Fungicide sprays in any 12 month period. DO NOT apply any TITAN Tebuconazole 430 SC Fungicide sprays in the months of July, August and September. Sub-tropical areas (eg South QLD, NSW): Commence spraying with TITAN Tebuconazole 430 SC Fungicide at the onset of warm and humid/wet weather, normally December. Repeat at 21 to 28 day intervals using a minimum of 2 consecutive TITAN Tebuconazole 430 SC Fungicide sprays. DO NOT apply more than 5 TITAN Tebuconazole 430 SC Fungicide sprays in any 12 month period. TITAN Tebuconazole 430 SC Fungicide is approved for use in banana plantations interplanted with avocados.
Grapevines	Powdery Mildew	–	Dilute spraying: 30mL/100L Concentrate spraying: Refer to 'Special instructions for grapevines' in the Application section	H 8 weeks G 3 weeks	Apply thoroughly as part of the following 5 spray program: 1. When shoots 10-20cm long. 2. Pre-flowering. 3. Flowering. 4. After fruit set. 5. Before bunches close. This use is subject to a Croplife Fungicide Resistance Management Strategy. DO NOT apply more than 2 consecutive sprays of TITAN Tebuconazole 430 SC Fungicide. DO NOT apply more than 3 sprays of TITAN Tebuconazole 430 SC Fungicide per season. DO NOT use TITAN Tebuconazole 430 SC Fungicide curatively. 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 use in equipment that requires concentrate rates greater than 150mL/100L of water (5x). DO NOT apply in volumes less than 250L/ha. Add a non-ionic wetting agent at 10mL/100L regardless of whether applying by dilute or concentrate spraying.
Peanuts (South QLD, NSW only)	Early Leaf Spot, Late Leaf Spot, Rust, Net Blotch	Ground application: Apply in at least 100L of water/ha Aerial application: Apply at least 30L of spray mixture per hectare		H 3 weeks G 3 weeks	Regularly check high risk areas in the crop for disease (eg lower leaves, shaded plants). When Leaf Spot or Net Blotch or Rust can easily be found then either; – spray immediately after the last disease conducive weather (eg rain or heavy dews) OR – spray before the next disease conducive weather. Repeat after 14 days if conditions remain favourable to disease development. If not, repeat before or just after the next disease conducive weather. For resistance strategy, see General Instructions.
		Low disease	175mL/ha + Agridex [†] 1L/ha		
		High disease OR wet weather	290mL/ha + Agridex 1L/ha		
		High disease AND wet weather	440mL/ha + Agridex 1L/ha		

CROPS	DISEASE	APPLICATION	RATE	WHP	CRITICAL COMMENTS
Peanuts (North QLD, WA, NT only)	Early Leaf Spot, Late Leaf Spot, Rust	Low disease	230mL/ha + Agridex 1L/ha	H 3 weeks G 3 weeks	Begin spraying at 3-4 weeks after planting. If band spraying, apply half the appropriate rate as a 45cm band directly over the row. Sprays should not be banded after 6 weeks from planting. Repeat applications at 14 day intervals. If prolonged wet weather or heavy rains occur, shorten spray interval to 10-12 days. For resistance strategy, see General Instructions.
		Moderate disease	290mL/ha + Agridex 1L/ha		
		Severe disease	440mL/ha + Agridex 1L/ha		Apply at 14 day intervals. If prolonged cool moist weather occurs, shorten spray interval to 10-12 days. For resistance strategy, see General Instructions.
	Net Blotch	Low disease	290mL/ha + Agridex 1L/ha		
		Moderate disease	440mL/ha + Agridex 1L/ha		
Green beans	Rust	Can be applied by aircraft or ground rig	350mL/ha + Agridex 1L/ha	H 3 days G 3 days	Spray when Rust infection begins or at budding, whichever is the earlier. Repeat application 10-14 days later. A third application may be necessary when infection occurs early or disease pressure is high.
Lettuce (<i>Lactuca sativa</i>)	Sclerotinia Rot	Apply by boom spray	350mL/ha	5 weeks	Apply by boom spray. Apply only during the early stages of plant development (note the 5 week WHP). Apply a maximum of 2 applications at 7-10 day intervals in rotation with other chemicals registered for this use (i.e. procymidone, iprodione and benomyl). Apply only to field crops. DO NOT apply in greenhouse (i.e. protected cropping) situations or hydroponically grown lettuce crops. Control of Sclerotinia in lettuce should not be solely reliant on fungicides. Other control measures such as crop rotations, resistant varieties and planting techniques should be employed.
Peas	Powdery Mildew	Ground application: Apply in at least 50L of water/ha Aerial application: Apply in at least 10L of water/ha	145mL/ha	H 3 days G 3 days	Apply at flowering or at first sign of disease, whichever occurs first. A second spray 14 days later may be necessary under some conditions.
Wheat	Leaf Rust, Stripe Rust, Septoria, Nodorum Blotch, Yellow Leaf Spot	Ground application: Apply in at least 50L of water/ha	145 or 290mL/ha	H 5 weeks G 14 days	Use higher rate when longer disease control is required. Stripe Rust: See spray timings under General Instructions. Other diseases: Apply from full flag leaf emergence to early head emergence. The addition of mineral crop oil (eg D-C-Trate or equivalent) at 1%, may improve performance of TITAN Tebuconazole 430 SC Fungicide on wheat, oats and barley. Apply at late tillering to early jointing. Apply when 5% of the leaf area is infected. Use higher rate when longer disease control is required. Apply if more than 5% of stems become infected between full flag leaf emergence to late flowering. 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 145mL/ha as soon as possible and if necessary, repeat after 3 weeks when heads are fully emerged.
	Septoria Tritici Blotch	Aerial application: Apply in at least 10L of water/ha	290mL/ha		
Oats	Crown Rust	Apply in at least 10L of water/ha	145 or 290mL/ha		
Barley	Scald		145mL/ha		
	Powdery Mildew		145 or 290mL/ha		
Wheat, Oats	Stem Rust				
Onions (TAS only)	White Root Rot	Before sowing, apply TITAN Tebuconazole 430 SC Fungicide onto lime super. Ensure good coverage of all lime super particles.	1.45mL/100m of row mixed with 145-218g lime super/100m of row	–	Apply TITAN Tebuconazole 430 SC Fungicide treated lime super when sowing onion seed. Seed and lime super can either be mixed in the same box on the drill or placed in different boxes and sown down the same tube. Apply in a band width of 2cm. Ensure that the correct rate of TITAN Tebuconazole 430 SC Fungicide is used otherwise some delay in emergence and reduced stands of seedlings may occur.

CROPS	DISEASE	APPLICATION	RATE	WHP	CRITICAL COMMENTS
Papaw	Black Spot	Ensure thorough coverage of leaves and fruit	290mL/ha	H 3 days	Ensure infected plant material is regularly removed and destroyed to reduce inoculum levels. Spray equipment must be properly calibrated to apply the correct amount of TITAN Tebuconazole 430 SC Fungicide. Apply TITAN Tebuconazole 430 SC Fungicide at 14 day intervals. Alternate TITAN Tebuconazole 430 SC Fungicide with sprays of a protectant fungicide (eg Dithane DF). DO NOT apply more than 6 sprays of TITAN Tebuconazole 430 SC Fungicide (or any DMI fungicide) on any block in any 12 month period.
Pyrethrum	<i>Sclerotinia sclerotiorum</i>	–	350mL/ha	–	Apply twice, in rotation with other control measures, at 7-10 day intervals. Commence at 1 to 2% flowering. Use under direction of pyrethrum advisers.
Ryegrass and Fescue seed crops	Leaf Rust, Stem Rust	Apply in at least 100L of water/ha	290mL/ha	–	Monitor crops closely and spray at the first signs of disease. Continuing disease pressure or reinfection may require a further application 3-4 weeks later. Ensure thorough coverage, and use higher water volumes in dense or advanced crops.
Sugarcane (variety Q124 only)	Orange Rust	Ground application: Use droppers and directed sprays and sufficient water volume to ensure thorough coverage. Aerial application: Apply in a minimum spray volume of 20L per hectare	290mL/ha plus Agri-dex 1L/ha	H 4 weeks G 4 weeks	Even low levels of Orange Rust suppress yields so it is important to apply TITAN Tebuconazole 430 SC Fungicide early in the development of the disease epidemic. Begin monitoring disease levels early. Check crops at least weekly when climatic conditions favour the development of disease. Apply as a foliar spray when disease begins to escalate rapidly. Repeat application after 14 days if conditions remain favourable to Orange Rust spore germination. DO NOT apply more than 2 TITAN Tebuconazole 430 SC Fungicide sprays per season. DO NOT apply if heavy rains or storms that are likely to cause surface run-off are forecast with greater than 50% probability within 24 hours (48 hours if possible) of application.

H = Harvest, G = Grazing

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

WITHHOLDING PERIODS:

BANANAS, AVOCADOS: DO NOT HARVEST FOR 1 DAY AFTER APPLICATION.

BEANS, PEAS: DO NOT HARVEST FOR 3 DAYS AFTER APPLICATION.

BEANS, PEAS: DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 3 DAYS AFTER APPLICATION.

CEREALS: DO NOT HARVEST FOR 5 WEEKS AFTER APPLICATION.

CEREALS: DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 14 DAYS AFTER APPLICATION.

GRAPEVINES: DO NOT HARVEST FOR 8 WEEKS AFTER APPLICATION.

LETTUCE: DO NOT HARVEST FOR 5 WEEKS AFTER APPLICATION.

ONIONS: NOT REQUIRED WHEN USED AS DIRECTED.

PAPAW: DO NOT HARVEST FOR 3 DAYS AFTER APPLICATION.

PEANUTS: DO NOT HARVEST FOR 21 DAYS AFTER APPLICATION.

PEANUTS: DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 21 DAYS AFTER APPLICATION.

SUGARCANE: DO NOT HARVEST FOR 4 WEEKS AFTER APPLICATION.

DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 4 WEEKS AFTER APPLICATION.

GENERAL INSTRUCTIONS

SPECIAL WARNING – BANANAS

There are certain conditions when the surface of recently emerged fruit is particularly prone to marking damage from spray applications. In circumstances where application will be made to very rapidly growing fruit in hot conditions with strong direct light, it is recommended that all emerged bunches be bagged prior to spraying to minimise risk of fruit marking. Never include adjuvants other than water miscible oils with TITAN Tebuconazole 430 SC Fungicide sprays. The inclusion of wetting agents is known to cause phytotoxicity to young fruit.

FOLIAR DISEASES ON CEREAL CROPS

DO NOT apply to cereal crops more than once in a season. 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.

SPRAY TIMINGS FOR STRIPE RUST CONTROL

Obtain advisory literature from Department of Agriculture for classification of resistant and susceptible varieties. In South Australia consult Plant Protection Note PPN 21. In other states the following spray program is suggested:

Seedling infections: When approximately 20 out of 100 leaves show first signs of infection during tillering to jointing, apply a spray within one week.

Adult infections – susceptible varieties: When approximately 10 out of 100 leaves show first sign of infection, apply a spray within one week. DO NOT delay.

Adult infections – moderately susceptible varieties: When approximately 15 to 20 leaves out of 100 leaves show first sign of infection, apply a spray within one week. DO NOT delay.

Adult infections – moderately resistant and resistant varieties: Monitor carefully. If Rust appears and spreads, spray within one week.

RESISTANCE MANAGEMENT RECOMMENDATION – PEANUTS

Apply no more than 3 consecutive sprays of DMI fungicide (eg TITAN Tebuconazole 430 SC Fungicide) before switching to a non-DMI fungicide. Apply no more than 5 DMI sprays per season.

MIXING

Prior to pouring, shake container vigorously, then add the required quantity of TITAN Tebuconazole 430 SC Fungicide to water in the spray vat while stirring or with agitators in motion. Add the required amount of Agridex[†] (peanuts, beans) or water miscible oil (bananas) and mix thoroughly.

APPLICATION

Aircraft should fly as low as possible under the prevailing conditions to minimise drift.

Special Instructions for Grapevines

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 the 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 can then be calculated in the following way:

EXAMPLE ONLY

1. Dilute spray volume as determined above: For example 1500L/ha.
2. Your chosen concentrate spray volume: For example 500L/ha.
3. The concentration factor in this example is: 3x (ie $1500L \div 500L = 3$).
4. If the dilute label rate is 30mL/100L, then the concentrate rate becomes 3 x 30, that is 90mL/100L of concentrate spraying.

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.

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.

FUNGICIDE RESISTANCE WARNING

TITAN Tebuconazole 430 SC Fungicide is a member of the DMI group of fungicides. For fungicide resistance management the product is a Group 3 fungicide. Some naturally occurring individual fungi resistant to the product 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 and 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 TITAN Tebuconazole 430 SC Fungicide to control resistant fungi.

RE-ENTRY PERIOD

DO NOT allow entry into treated areas until spray has dried.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

DO NOT contaminate streams, rivers or waterways with the chemical or used containers. A spray drift minimisation strategy should be employed at all times when aerially applying sprays. Spray drift may occur under adverse meteorological conditions or from certain spraying equipment. DO NOT allow spray to drift onto sensitive areas including, but not limited to, susceptible plants/crops, cropping land, pasture, natural streams, rivers, wetlands, waterways or human dwellings. The strategy envisaged is exemplified by the cotton industry's Best Management Practices Manual.

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 and deliver empty packaging 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.

SAFETY DIRECTIONS

Harmful if swallowed. Will irritate the eyes and skin. Avoid contact with eyes and skin. When opening the container, preparing the spray, and using the prepared spray, wear cotton overalls buttoned to the neck and wrist and washable hat, elbow-length PVC gloves and face shield or goggles. After each use and before eating, drinking or smoking, wash gloves, arms and face thoroughly with soap and water. After each day's use, wash gloves and contaminated clothing.

FIRST AID

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 Tebuconazole 430 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 damaging fertility or the unborn child. Very 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.

