

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

eChem

TEBUCONAZOLE 430

FUNGICIDE

ACTIVE CONSTITUENT: 430 g/L TEBUCONAZOLE

GROUP **3** FUNGICIDE

For the control of leaf spot and leaf speckle on bananas; rust, leaf spot and net blotch of peanuts; foliar diseases on cereal crops; and other diseases on beans, peas, onions, pawpaw, pyrethrum, and ryegrass and fescue seed crops as specified in the Directions for Use Table.
IMPORTANT: READ THIS LEAFLET BEFORE USE

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DIRECTIONS FOR USE

Crop	Disease	Application	Rate mL/ha	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 20 L of spray mixture per hectare.	230 Add 3 – 6 L water-miscible oil/ ha	1 day	Maintain good de-leafing 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 eChem Tebuconazole 430 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 maximum of 3 consecutive eChem Tebuconazole 430 Fungicide sprays at 14 day intervals. Do not apply more than 6 eChem Tebuconazole 430 Fungicide sprays in any 12 month period. Do not apply any eChem Tebuconazole 430 Fungicide sprays in the months of July, August and September. Sub-Tropical Areas (eg South Qld, NSW): Commence spraying with eChem Tebuconazole 430 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 eChem Tebuconazole 430 Fungicide sprays. Do not apply more than 5 eChem Tebuconazole 430 Fungicide sprays in any 12 month period. eChem Tebuconazole 430 Fungicide is approved for use in banana plantations inter-planted with avocados.
Peanuts (South QLD, NSW only)	Early leaf spot, Late leaf spot, Rust, Net Blotch	Low Disease Ground Application Apply in at least 100 L of water/ha Aerial Application Apply at least 30 L of spray mixture/ hectare. High Disease OR Wet Weather High Disease AND Wet Weather	175 + Agridex 1 L/ha	H 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.
			290 + Agridex 1 L/ha	G 3 weeks	
			440 + Agridex 1 L/ha		

Crop	Disease	Application	Rate mL/ha	WHP	Critical Comments
Peanuts (North QLD, WA, NT only)	Early leaf spot, Late leaf spot, Rust	Low Disease	230 + Agridex 1 L/ha	H 3 weeks	Begin spraying at 3 - 4 weeks after planting. If band spraying, apply half the appropriate rate as a 45 cm 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	290 + Agridex 1 L/ha	G 3 weeks	
		Severe Disease	440 + Agridex 1 L/ha		
	Net blotch	Low Disease	290 + Agridex 1 L/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.
Moderate Severe Disease		440 + Agridex 1 L/ha			
Green Beans	Rust	Can be applied by aircraft or ground rig	350 + Agridex 1 L/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. Apply at flowering or at the first sign of disease, whichever occurs first. A second spray 14 days later may be necessary under some conditions.
Peas	Powdery Mildew	Ground Application Apply in at least 50 L of water/ hectare	145		Apply at flowering or at the first sign of disease, whichever occurs first. A second spray 14 days later may be necessary under some conditions.
Wheat	Leaf rust, Stripe rust, <i>Septoria nodorum</i> blotch Yellow leaf spot <i>Septoria tritici</i> blotch	Aerial Application Apply in at least 10 L of water/ hectare	145 or 290	H 5 weeks G 14 days	Use the 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 DC Trate or equivalent) at 1% may improve performance of eChem Tebuconazole 430 Fungicide on wheat, oats and barley. Apply at late tillering to early jointing.
			290		Apply when 5% of the leaf area is infected. Use higher rate when longer disease control is required.
Oats	Crown rust		145 or 290		
Barley	Scald		145		
	Powdery mildew		145 or 290		
Wheat, Oats	Stem rust				Stem Rust: Apply if more than 5% of stems become infected between full flag 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 145 mL/ha as soon as possible and, if necessary, repeat after 3 weeks when heads are fully emerged.
Onions (Tas only)	White Root Rot	Before sowing, apply eChem Tebuconazole 430 Fungicide onto lime super. Ensure good coverage of all lime super particles.	1.45 mL/100 m of row mixed with 145 - 218 g lime super/100 m of row	-	Apply eChem Tebuconazole 430 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 2 cm. Ensure that the correct rate of eChem Tebuconazole 430 Fungicide is used otherwise some delay in emergence and reduced stands of seedlings may occur.
Pawpaw	Black spot	Ensure thorough coverage of leaves and fruit.	290	3 days	Ensure infected plant material is regularly removed and destroyed to reduce inoculums levels. Spray equipment must be properly calibrated to apply the correct amount of eChem Tebuconazole 430 Fungicide. Apply eChem Tebuconazole 430 Fungicide at 14 day intervals. Alternate eChem Tebuconazole 430 Fungicide with sprays of a protectant fungicide (eg Mancozeb). Do not apply more than 6 sprays of eChem Tebuconazole 430 Fungicide (or any DMI fungicide) on any block in any 12 month period.
Pyrethrum	<i>Sclerotinia sclerotiorum</i>		350	-	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 100 L of water/ha	290	G 14 days	Monitor crops closely and spray at the first signs of disease. Continuing disease pressure or re-infection may require a further application 3 - 4 weeks later. Ensure thorough coverage and use higher water volumes in dense or advanced crops.

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 AND DO NOT GRAZE OR CUT FOR LIVESTOCK FOR 3 DAYS AFTER APPLICATION.**

Cereals: **DO NOT HARVEST FOR 5 WEEKS AFTER APPLICATION AND DO NOT GRAZE OR CUT FOR LIVESTOCK FOR 14 DAYS AFTER APPLICATION.**

Pawpaw: **DO NOT HARVEST FOR 3 DAYS AFTER APPLICATION.**

Peanuts: **DO NOT HARVEST FOR 21 DAYS AFTER APPLICATION AND DO NOT GRAZE OR CUT FOR LIVESTOCK FOR 21 DAYS AFTER APPLICATION.**

Rye Grass and Fescue Seed Crops: **DO NOT GRAZE OR CUT FOR LIVESTOCK FOR 14 DAYS AFTER APPLICATION.**

Onions: **NOT REQUIRED WHEN USED AS DIRECTED.**

GENERAL INSTRUCTIONS**FUNGICIDE RESISTANCE WARNING****GROUP 3 FUNGICIDE**

eChem Tebuconazole 430 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 eChem Tebuconazole 430 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 eChem Tebuconazole 430 Fungicide 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, eChem (Australia) Pty Ltd. accepts no liability for any losses that may result from the failure of eChem Tebuconazole 430 Fungicide to control resistant fungi.

Resistance Management Recommendation – Peanuts

Apply no more than 3 consecutive sprays of DMI fungicide (eg. tebuconazole) before switching to a non-DMI fungicide. Apply no more than 5 DMI sprays per season.

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 eChem Tebuconazole 430 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 2 t/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 3 t/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 signs of infection during tillering or jointing, apply a spray within one week.

Adult Infections - susceptible varieties: When approximately 10 out of 100 leaves show first signs 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 signs 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.

MIXING

Prior to pouring, shake container vigorously, then add the required amount of eChem Tebuconazole 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.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

DO NOT contaminate ponds, waterways or drains with the product or used container. The spray drift minimisation strategy should be employed at all times when aerially applying sprays. 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 dry, cool, well-ventilated area. Do NOT store for prolonged periods in direct sunlight. Triple, or preferably, pressure 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 bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should NOT be burnt.

For Refillable containers: Empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage.

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 a washable hat and elbow-length PVC gloves. After use, and before eating, drinking or smoking, wash hands, 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: 13 11 26.

MATERIAL SAFETY DATA SHEET

Additional information is listed in the Material Safety Data Sheet (MSDS) which is available from the supplier.

CONDITIONS OF SALE

eChem (Australia) Pty Ltd. accepts responsibility for the consistent quality of the product however since the use and application of the product is beyond control, the company accepts no responsibility whatsoever for any loss, damage or other result following the use of the product whether used in accordance with directions or not; other than those mandatorily imposed by statutes, the liability is limited to the replacement of the goods and is conditional upon a claim made in writing and, where necessary, a sufficient part of the goods being returned for proper examination by the company within thirty days of sale.