

Isis[®] 430SC

FUNGICIDE

GROUP 3 FUNGICIDE

Active Constituent: 430g/L TEBUCONAZOLE

Poison Schedule: S5 (CAUTION)

APVMA Approval No: 58809



Eligible containers
5L

For control of leaf spot and leaf speckle on bananas; rust, leaf spot and net blotch of peanuts; foliar on cereal crops; and other diseases on beans, peas, onion pawpaw, pyrethrum, and ryegrass and fescue seed crops as specified in the directions for use table.

Pack Size:

5L (4 x 5L per carton)

Dangerous Goods Class:

Not classified as a dangerous good under the Australian Code for Transport and Storage of Dangerous Goods in Australia.

DIRECTIONS FOR USE

Crop	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 leaf removed prior to the application of Isis. 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, Isis sprays at 14 day intervals do not apply more than 6 Isis sprays in any 12 month period. Do not apply any Isis sprays in the months of July, August and September. Sub-tropical areas (eg South Qld, NSW) Commence spraying with Isis at the onset of warm and humid/wet weather, normally December. Repeat at 21 to 28 day intervals using a minimum of 2 consecutive Isis sprays. Do not apply more than 5 Isis sprays in any 12 month period. Isis is approved for use in banana plantation interplanted with avocados.

Isis[®] 430SC

DIRECTIONS FOR USE continued					
Crop	Disease	Application	Rate	WHP	Critical Comments
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 Low disease	175mL/ha + Agridex 1L/ha	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. See General instructions.
		High disease OR wet weather	290mL/ha + Agridex 1L/ha		
		High disease and wet weather	440mL/ha + Agridex 1L/ha		
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	Being spraying at 3-4 weeks after planting. If band spraying apply half the appropriate rate as a 45 cm band directly over the row.
		Moderate disease	290mL/ha + Agridex 1L/ha		
	Net Blotch	Low disease	290mL/ha + Agridex 1L/ha		Sprays should not be banded after 6 weeks from planting. Repeat applications at 14 day intervals. If prolonged wet weather or heavy rain occur, shorten spray interval to 10-12 days. For resistance strategy. See General Instructions. Apply at 14 day intervals. If prolonged cool moist weather occurs, shorten spray interval to 10-12 day. For resistance strategy, See General Instructions.
		Moderate-severe 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.
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.

Isis[®] 430SC

DIRECTIONS FOR USE continued					
Crop	Disease	Application	Rate	WHP	Critical Comments
Wheat	Leaf rust, Stipe rust, Septoria nodorum blotch. Yellow leaf spot	Ground Application Apply in at least 50L of water/ha Aerial Application Apply in at least 10L of water/ha	145 or 290mL/ha	H 5 weeks G 14 days	Use higher rate when longer disease control is required. Strip 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 equi valent) at 1% may improve performance of Isis on wheat, oats and barley.
	Septoria tritici blotch		290mL/ha		
Oats	Crown rust	145 or 290 mL/ha	Apply at late tillering to early jointing.		
Barley	Scald	145 mL/ha			
	Powdery mildew	145 or 290 mL/ha	Apply when 5% of the leaf area is infected. Use higher rate when longer disease control is required.		
Onions (TAS ONLY)	White root rot	Before sowing, apply Isis onto lime super. Ensure good coverage of all lime super particles.	1.4mL/100m row mixed with 145-218g lime super/100m row	-	Apply Isis 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. Ensure that the correct rate of Isis is used otherwise some delay in emergence and reduced stands of seedlings may occur.
Pawpaw	Black spot	Ensure thorough coverage of leaves and fruit.	290mL/ha	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 Isis. Apply Isis at 14 day intervals. Alternate Isis with sprays of protectant fungicide (eg Mancozeb DF). Do not apply more than 6 sprays of Isis (or any DMI fungicide) on any block in any 12 month period.
Pyrethrum	Sclerotinia sclerotiorum		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.

Isis[®] 430SC

DIRECTIONS FOR USE continued					
Crop	Disease	Application	Rate	WHP	Critical Comments
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.

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 NO 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.

ONIONS: NOT REQUIRED WHEN USED AS DIRECTED.

PAWPAW: 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.

H = harvest, G = grazing.

GENERAL INSTRUCTIONS:

Resistance Warning

GROUP 3 FUNGICIDE

Isis Fungicide is a member of the DMI group of fungicides. For fungicide resistance management Isis Fungicide is a Group 3 fungicide. Some naturally occurring individual fungi resistant to Isis 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, Colin Campbell (Chemicals) Pty. Ltd. accepts no liability for any losses that may result from the failure of this product to control resistant fungi.

Resistance management recommendation-peanuts

Apply no more than 3 consecutive sprays of DMI fungicide (eg Isis) 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 applications 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 Isis sprays. The inclusion of wetting agents is known to cause phytotoxicity to your 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

Isis[®] 430SC

severe disease. Economic responses are most likely with crops with potential yield of over 3t/ha.

Spray timing 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.

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.

Mixing:

Prior to pouring, shake container vigorously, then add the required quantity of Isis 430SC 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 prevailing conditions to minimise drift.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

DO NOT contaminate ponds, waterways and drains with this product or used container. A 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 cool, well ventilated area. Do not store for prolonged periods in direct sunlight. Triple or preferably pressure rinse container 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.

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 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 (Telephone 131126)

MATERIAL SAFETY DATA SHEET

For further information, refer to the Material Safety Data Sheet.

CONDITIONS OF SALE

Agricultural, horticultural and pastoral preparations in their application involve varying factors such as differing conditions, soil, climate and methods of application over which the vendor does not have control, Whilst Colin Campbell (Chemicals) Pty. Ltd believes that all goods sold by it are true to label and are effective and safe for purpose indicated the company and the seller hereby expressly negate and exclude any express or implied condition, statement or warranty, statutory or otherwise, as to quality or fitness of any goods sold for any purpose or purposes whatsoever except such warranties and conditions, if any, as are implied by the Trade Practices Act 1974 (Commonwealth). The company and the seller accept no responsibility for any loss, harm or damage whatsoever suffered from the use of such goods for any purpose or purposes irrespective of whether or not the buyer was acting in reliance upon the advice recommendation or representation of the seller or any representative agent of employee of the company as to such use except in respect of breaches of conditions and warranties, if any, implied by the Trade practices Act and in respect of such breaches the liability of the company and the seller shall be limited to the replacement of the goods or the supply of equivalent goods, or the payment of the cost of replacing the goods.

APVMA Approval No: 58809

®Isis is a registered trademark of Colin Campbell (Chemicals) Pty Ltd