

CAUTION

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

Farmoz

Citadel®

Fungicide

ACTIVE CONSTITUENT: **250 g/L TRIADIMENOL**

SOLVENT: 472 g/L N-METHYL-2-PYRROLIDONE

GROUP 3 FUNGICIDE

For systemic control of ring spot on brassica vegetables, powdery mildew on cucurbits, grapevines and papaws, pineapple disease of sugarcane and for control of various diseases in turf as specified in the Directions for Use table

Formulation type

Emulsifiable
Concentrate



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ADAMA

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CONTENTS: 1 L, 5 L, 10 L

DIRECTIONS FOR USE

CROP	DISEASE	RATE	WHP	CRITICAL COMMENTS
Brassica Vegetables (e.g. Cabbage, Cauliflower, Broccoli, Brussels Sprouts)	Ring Spot	200 or 400 mL/ha + Agridex* 200 mL/ha	7 days	Apply every 10 days. Start the program immediately following the first two consecutive days of rain after transplanting. Use higher rate under heavy disease pressure or when weather conditions favour development of the disease.
Cucurbits	Powdery Mildew	40 mL/100 L or 400 mL/ha	1 day	Apply a non-Group 3 fungicide on a schedule commencing as soon as possible after emergence until fruit set. Then either tank mix or alternate CITADEL® with a non-Group 3 fungicide on a 5 - 10 day schedule. Use short spray intervals when disease pressure is high or plants are growing rapidly. Good coverage is essential for good results.
Grapevines		<u>Dilute spraying</u> 10 mL/100 L <u>Concentrate spraying</u> Refer to the Application section	7 days	Apply thoroughly at: 1. When shoots are 10 - 20 cm long. 2. Pre-flowering. 3. At flowering. DO NOT allow spray intervals to exceed 21 days. Follow-up with a non-Group 3 fungicide at: 1. After fruit set. 2. Before bunches close. 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 rates greater than 50 mL/100 L of water. DO NOT apply in water volumes less than 250 L/ha.

DIRECTIONS FOR USE – continued

CROP	DISEASE	RATE	WHP	CRITICAL COMMENTS
Papaws (Qld, NSW, WA only)	Powdery Mildew	<u>Dilute</u> spraying 20 mL/100 L <u>Concentrate</u> spraying Refer to the Application section	7 days	Spray when Powdery Mildew infection begins or when conditions favour the disease. Repeat applications every 14 days while conditions favour the disease. Ensure thorough coverage of foliage particularly the crown region. 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.
Sugarcane (Qld, NSW only)	Pineapple Disease	20 mL/100 L	-	Apply to setts by dipping or spraying. Ensure thorough wetting of cut ends.
Turf	Dollar Spot (not Tasmania, NT)	Preventive 30 mL/100 m ²		Apply thoroughly on a monthly program starting immediately the disease appears.
		Curative 60 mL/100 m ²		Apply thoroughly under conditions of heavy disease pressure, then treat as necessary.
	Black Helminthosporium (Qld, NSW, Tas only)	60 mL/100 m ²		Use high volume equipment. Low volume may be used provided turf is irrigated thoroughly after spraying. Apply during period of turf growth on a monthly program.
	Take-all patch (Not SA, NT)			Preventive only after soil fumigation with methyl bromide. Apply thoroughly, using high volume equipment, 6 - 8 weeks after seeding. Repeat applications (every 8 weeks in the first two years) for continued protection.
	Winter Fusarium (NSW, Vic, Tas only)			Apply thoroughly on a monthly program from end of March until danger of infection has passed.

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

WITHHOLDING PERIODS**Harvest****CUCURBITS:****DO NOT HARVEST FOR 1 DAY AFTER APPLICATION.****BRASSICA VEGETABLES, GRAPEVINES, PAPAWS:****DO NOT HARVEST FOR 7 DAYS AFTER APPLICATION.****Grazing****BRASSICA VEGETABLES:****NOT REQUIRED WHEN USED AS DIRECTED.**

GENERAL INSTRUCTIONS

CITADEL® Fungicide is a broad spectrum, systemic, foliar fungicide that is quickly taken up by plants and translocated within the plant. In turf, CITADEL® provides protection on a monthly spray program and acts curatively after infection has taken place. Because of its systemic activity, CITADEL® is less affected by rainfall or irrigation that contact type fungicides.

FUNGICIDE RESISTANCE WARNING

CITADEL® Fungicide is a member of the DMI

GROUP	3	FUNGICIDE
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 group of fungicides. For fungicide resistance management CITADEL® is a Group 3 fungicide. Some naturally occurring individual fungi resistant to CITADEL® and other Group 3 fungicides may exist through normal genetic variability in any fungal population. The resistant individuals can eventually dominate the fungi population if these fungicides are used repeatedly. These resistant fungi will not be controlled by CITADEL® 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, Adama Australia accepts no liability for any losses that may result from the failure of CITADEL® to control resistant fungi.

MIXING

Half fill the spray tank or vat with clean water. Then add the required amount of CITADEL® with agitator going and top up the tank with water. Agitate thoroughly prior to and during spraying.

APPLICATION

Dilute Spraying (grapevines, papaws)

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 100 L 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 1500 L/ha.
2. Your chosen concentrate spray volume: For example 500 L/ha.
3. The concentration factor in this example is: $3 \times$ (ie $1500 \text{ L} \div 500 \text{ L} = 3$).
4. If the dilute label rate is 10 mL/100 L, then the concentrate rate becomes 3×10 , that is 30 mL/100 L of concentrate spraying.

The chosen spray volume, amount of product per 100 L of water, and the sprayer set up and operation may need to be changed as the crop grows. For grapevines, DO NOT use a concentrate rate higher than that specified in the Critical Comments because a rate higher than that has not been tested in Adama trials.

For further information on concentrate spraying, users are advised to consult relevant industry guidelines, undertake appropriate competency training and follow industry Best Practices.

COMPATIBILITY

CITADEL® is compatible with cyfluthrin, Agridex*, Antracol* (propineb), sodium molybdate, white oil, misting oil, water miscible oil. CITADEL® is not compatible with Tokuthion* (prothiofos) or chlorpyrifos EC on table grapes. CITADEL® is compatible with chlorpyrifos EC on wine grapes. DO NOT mix concentrates together but add each to the spray tank separately. As formulations of other manufacturers' products are beyond the control of Adama Australia all mixtures should be tested prior to mixing commercial quantities. As changes in climatic conditions can alter the sensitivity of plants to mixtures of sprays, Adama cannot be responsible for the behaviour of such mixtures.

PROTECTION OF CROPS, NATIVE AND NON-TARGET PLANTS

DO NOT apply earlier than 5 weeks after sowing turf.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

Harmful to fish. DO NOT contaminate streams, rivers or waterways with the chemical or used containers.

STORAGE AND DISPOSAL (1 L, 5 L, 10 L)

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 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.

SAFETY DIRECTIONS

Will irritate the eyes and skin. Avoid contact with eyes and skin. DO NOT inhale spray mist. When preparing the spray wear cotton overalls buttoned to the neck and wrist, a washable hat, elbowlength butyl rubber gloves and goggles. If product in eyes, wash it out immediately with water. 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, goggles and contaminated clothing.

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 13 11 26. If swallowed, DO NOT induce vomiting. Give a glass of water. If in eyes wash out immediately with water.

SDS

Additional information is listed in the safety data sheet (SDS). A safety data sheet for CITADEL® is available from adama.com or call Customer Service on 1800 423 262.

CONDITIONS OF SALE: The use of CITADEL® Fungicide being beyond the control of the manufacturer, no warranty expressed or implied is given by Adama Australia regarding its suitability, fitness or efficiency for any purpose for which it is used by the buyer, whether in accordance with the directions or not and Adama Australia accepts no responsibility for any consequence whatsoever resulting from the use of this product.

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