

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

QUANTUM

Carbendazim 500 SC

FUNGICIDE

ACTIVE CONSTITUENT: 500g/L CARBENDAZIM

GROUP **1** FUNGICIDE

For the control of fungal diseases on Macadamia Nuts, Chickpeas, Faba Beans, Lentils and Vetch, as per the Directions for Use Table

APVMA Approval No.: 96621/150116

SC Formulation Type
Suspension
Concentrate

**BE PROUDLY
AUSTRALIAN**

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 **QUANTUM
AGROSCIENCES**

DIRECTIONS FOR USE

TREE CROPS			
RATE			
<p>This table shows rates for dilute spraying. For concentrate spraying, refer to mixing/ application section.</p>			
CROP	DISEASE	STATE	RATE
Macadamia – nuts	Macadamia Husk Spot (<i>Pseudocercospora macadamiae</i>)	All States	50mL plus a wetting agent (at 100mL per 100L)
OTHER CROPS			
CROP	DISEASE	STATE	RATE
Chickpeas, Faba beans, Lentils and Vetch	Chocolate spot (<i>Botrytis fabae</i>), Grey Mould (<i>Botrytis cinerea</i>)	All States	500mL/ha

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

WITHHOLDING PERIODS

MACADAMIA NUTS: DO NOT HARVEST FOR 14 DAYS AFTER APPLICATION.

GRAZING: DO NOT ALLOW LIVESTOCK TO GRAZE VEGETATION IN TREATED PLANTATIONS FOR 4 WEEKS AFTER APPLICATION.

DO NOT CUT TREATED VEGETATION IN TREATED PLANTATIONS FOR STOCK FEED FOR 4 WEEKS AFTER APPLICATION.

CHICKPEAS, FABA BEANS, LENTILS AND VETCH:

DO NOT HARVEST FOR 4 WEEKS AFTER APPLICATION.

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

	CRITICAL COMMENTS
	For all uses in this table: Apply by dilute or concentrate spraying application equipment. Apply the same total amount of product to the target crop whether applying this product by dilute or concentrate spraying methods. For concentrate spraying, DO NOT use at rates greater than 5 times the dilute spraying rate.
WHP	CRITICAL COMMENTS
14 days (H), 4 weeks (G)	Apply at 5 and 8 weeks after main flowering – stage 2 anthesis (white flowering stage). Remove any fallen nuts from under trees prior to spraying. DO NOT apply more than 2 applications of Quantum Carbendazim 500 SC Fungicide per season.
WHP	CRITICAL COMMENTS
4 weeks (H, G)	Apply a maximum of two consecutive applications at 14 day intervals. Apply in a minimum of 100L water per hectare.

TRADE ADVICE

EXPORT OF TREATED PRODUCE: Growers should note that suitable MRLs or import tolerances may not be established in all markets for produce treated with Quantum Carbendazim 500 SC. If you are growing produce for export, please check with Quantum Agrosociences Holdings Pty Ltd for the latest information and import tolerances BEFORE using Quantum Carbendazim 500 SC Fungicide.

GENERAL INSTRUCTIONS

MIXING/APPLICATION

SHAKE WELL BEFORE USE. Quantum Carbendazim 500 SC Fungicide is a liquid suspension to be mixed with water for application as a spray. Add the required quantity of Quantum Carbendazim 500 SC Fungicide to a partly filled spray tank and agitate. Compete filling while agitating. Ensure the spray mixture is properly agitated before restarting after stoppage.

ADDITION OF WETTING AGENT

The addition of a wetting agent to the spray mixture improves the distribution of the spray on hard to wet plants.

TREE CROPS

Dilute Spraying: Use a sprayer designed to apply high volumes of water up to the pint 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 to 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 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 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 spraying can then be calculated in the following way:

EXAMPLE ONLY

Dilute spray volume as determined above: For example 1500L/ha

Your chosen concentrate spray volume: For example 500L/ha

The concentration factor in this example is: $3x$ (ie $1500 \div 500L = 3$)

If the dilute label rate is 10mL/100L, the concentrate rate becomes 3×10 , that is 30mL/100L of concentrate spray. The chosen spray volume, amount of product per 100L of water, and the sprayer setup and operation may need to be changed as the crop grows. For further information on concentrate spraying, users are advised to consult relevant industry guidelines, undertake appropriate competency training and follow Industry Best Practices.

COMPATIBILITY

Quantum Carbendazim 500 SC Fungicide is compatible with many insecticides and fungicides, however to be sure of compatibility with any particular product check with your local dealer first.

As formulations of other manufacturer's products are beyond the control of Quantum Agrosociences Holdings Pty Ltd, and the quality of water may vary with location, all mixtures should be tested prior to mixing commercial quantities. Mixtures with more than one product may not be compatible and should be checked in a jar test first.

Physical compatibility does not guarantee biological compatibility.

FUNGICIDE RESISTANCE WARNING

Quantum Carbendazim 500 SC Fungicide is a member of the benzimidazole group of fungicides. For fungicide resistance management Quantum Carbendazim 500 SC Fungicide is a Group 1 fungicide. Some naturally occurring fungi resistant to Quantum Carbendazim 500 SC Fungicide and other Group 1 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 Quantum Carbendazim 500 SC Fungicide and other Group 1 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, Quantum Agrosociences Holdings Pty Ltd accepts no liability for any losses that may result from the failure of Quantum Carbendazim 500 SC to control resistant fungi.

PRECAUTIONS

Keep away from foodstuffs.

RE-ENTRY PERIOD

DO NOT allow entry into treated areas until the spray has dried, unless wearing cotton overalls buttoned to the neck and wrist (or equivalent clothing) and chemical resistant gloves. Clothing must be laundered after each day's use.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

Very toxic to aquatic life with long lasting effects. DO NOT contaminate wetlands or watercourses with the chemical or use containers.

PROTECTION OF LIVESTOCK

Quantum Carbendazim 500 SC is of low toxicity to bees.

STORAGE AND DISPOSAL

Store in a locked room or place away from children, animals, food, feedstuffs, seed and fertilisers. 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 for appropriate disposal at 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.

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

SAFETY DIRECTIONS

WARNING: Contains carbendazim which causes birth defects and irreversible male infertility in laboratory animals. Avoid contact with carbendazim.

SAFETY DIRECTIONS

Very dangerous, particularly the concentrate. Poisonous if absorbed by skin contact, inhaled or swallowed. May irritate the eyes and skin. Avoid contact with eyes and skin. DO NOT inhale vapour or spray mist. When opening the container, preparing spray and using the prepared spray, wear elbow-length chemical resistant gloves and a face shield. 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, face shield and contaminated clothing.

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 13 11 26; New Zealand 0800 764 766.

SAFETY DATA SHEET

For further information refer to Safety Data Sheet (SDS) which can be obtained from the supplier.

CONDITIONS OF SALE: Quantum Agrosiences Holdings 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 Quantum Agrosiences Holdings Pty Ltd's skill or judgement in purchasing or using the same and every person dealing with this product does so at his own risk absolutely. No representative of Quantum Agrosiences Holdings Pty Ltd has any authority to add to or alter these conditions.

Additional information required under the Globally Harmonised System (GHS) classification of the substance/mixture: **May be fatal if swallowed and enters airways. Harmful if inhaled. May cause drowsiness or dizziness. May damage the unborn child. Very toxic to aquatic life with long lasting effects.** Obtain special instructions before use. Use only outdoors or in a well-ventilated area. Wear protective gloves, protective clothing, eye protection and face protection. IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician/first aider. Do NOT induce vomiting. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN: Wash with plenty of water. IF INHALED: Remove person to fresh air and keep comfortable for breathing.



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