

DANGEROUS POISON

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

Howzat® SC

Fungicide

ACTIVE CONSTITUENT: **500 g/L CARBENDAZIM**

GROUP **1** FUNGICIDE

A broad spectrum, systemic fungicide for the control of fungal diseases in various crops as per the Directions for Use table

Formulation type
Suspension
Concentrate **SC**



ADAMA

adama.com

CONTENTS: 5 L - 1000 L

DIRECTIONS FOR USE

RESTRAINTS: DO NOT apply to turf, grapes, cucurbits (including melons), citrus fruit, custard apple, mango, pome fruit (apples or pears) or stone fruit (including cherries).

SPRAY DRIFT RESTRAINTS

Specific definitions for terms used in this section of the label can be found at apvma.gov.au/spraydrift

DO NOT allow bystanders to come into contact with the spray cloud.

DO NOT apply in a manner that may cause an unacceptable impact to native vegetation, agricultural crops, landscaped gardens and aquaculture production, or cause contamination of plant or livestock commodities, outside the application site from spray drift. Wherever possible, correctly use application equipment designed to reduce spray drift and apply when the wind direction is away from these sensitive areas.

DO NOT apply unless the wind speed is between 3 and 20 kilometres per hour at the application site during the time of application.

DO NOT apply if there are hazardous surface temperature inversion conditions present at the application site during the time of application. Surface temperature inversion conditions exist most evenings one to two hours before sunset and persist until one to two hours after sunrise.

1. TREE CROPS

| RATE | | | | | CRITICAL COMMENTS |
|---|---|------------|--|----------------------------|--|
| This table shows rates for dilute spraying. For concentrate spraying, refer to the Mixing/Application section. | | | | | |
| CROP | DISEASE | STATE | RATE | WHP | For all uses in this table: 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. |
| Macadamia Nuts | Macadamia Husk Spot (<i>Pseudocercospora</i> spp.) | All States | 50 mL plus a wetting agent (at 100 mL/100 L) | 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 HOWZAT® SC per season. |

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2. OTHER CROPS

| CROP | DISEASE | STATE | RATE | WHP | CRITICAL COMMENTS |
|--|--|------------|-----------|----------------|--|
| Chickpeas, Faba Beans, Lentils and Vetch | Chocolate Spot (<i>Botrytis fabae</i>), Grey Mould (<i>Botrytis cinerea</i>) | All States | 500 mL/ha | 4 weeks (H, G) | Apply a maximum of two consecutive applications at a 14 day interval. Apply a minimum of 100 L of water per hectare. |

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

WITHHOLDING PERIOD

MACADAMIA NUTS:

DO NOT HARVEST FOR 14 DAYS AFTER APPLICATION.

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

DO NOT CUT 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 STOCKFEED FOR 4 WEEKS AFTER APPLICATION.

EXPORT OF TREATED PRODUCE

Growers should note that suitable MRLs or import tolerances may not be established in all markets for produce treated with HOWZAT® SC. If you are growing produce for export, please check with Adama for the latest information on MRLs and import tolerances BEFORE using HOWZAT® SC.

GENERAL INSTRUCTIONS

MIXING

SHAKE WELL BEFORE USE. HOWZAT® SC is a liquid suspension to be mixed with water for application as a spray. Add the required quantity of HOWZAT® SC to a partly filled spray tank and agitate.

Complete filling while agitating. Ensure the spray mixture is properly agitated before restarting after stoppage.

ADDITION OF WETTING AGENT

The addition of a wetting agent e.g. BS1000 or equivalent, to the spray mixture improves the distribution of the spray on hard to wet plants.

APPLICATION

1. TREE CROPS

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 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 spraying can then be calculated in the following way:

EXAMPLE ONLY

- Dilute spray volume as determined above: For example 1500 L/ha.
- Your chosen concentrate spray volume: For example 500 L/ha.
- The concentration factor in this example is: $3 \times$ (ie $1500 \text{ L} \div 500 \text{ L} = 3$).
- 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 further information on concentrate spraying, users are advised to consult relevant industry guidelines, undertake appropriate competency training and follow industry Best Practices.

2. OTHER CROPS

High Volume (dilute spraying): Apply in sufficient water to thoroughly wet the crop to the point of runoff. The water volume should increase as the crop size and bulk increases. Where a range of rate is specified, use the higher rate when disease pressure is high.

Low Volume (concentrate spraying): Where a rate per hectare (ha) is specified, apply in sufficient water to ensure thorough, even coverage of all plant parts. Where a range of rates is specified, use the higher rate when disease pressure is high. Where no rate per hectare is specified, the rate per hectare should be based on that which would be applied per hectare if high volume (dilute) application was used.

FUNGICIDE RESISTANCE WARNING

HOWZAT® SC Fungicide is a member of the Methyl Benzimidazole Carbamate group of fungicides. For fungicide resistance management HOWZAT® SC is a Group 1 fungicide. Some naturally occurring fungal populations resistant to HOWZAT® SC and other Group 1 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 HOWZAT® SC 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, Adama Australia accepts no liability for any losses that may result from the failure of HOWZAT® SC to control resistant fungi.

COMPATIBILITY

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

PROTECTION OF LIVESTOCK

HOWZAT® SC is of low toxicity to bees.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

Very toxic to aquatic life with long lasting effects. DO NOT contaminate wetlands or watercourses with this product or the used containers.

PRECAUTION

Keep away from foodstuffs.

RE-ENTRY PERIOD

For chickpeas, faba beans, lentils and macadamia nuts: 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.

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.

5 to 100 L: This container can be recycled if it is clean, dry, free of visible residues and has the *drumMUSTER* logo visible. Triple-rinse container for disposal. Dispose of rinsate by adding it to the spray tank. DO NOT dispose of undiluted chemical on site. Wash outside of the container and the cap. Store cleaned container in a sheltered place with cap removed.

It will then be acceptable for recycling at any *drumMUSTER* collection or similar container management program site. The cap should not be replaced, but may be taken separately. 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 500 mm 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.

110 L (mini-bulk returnable containers) only: DO NOT tamper with the Micro Matic valve or the security seal. DO NOT contaminate the container with water or any foreign matter.

After each use of the product, please ensure that the Micro Matic coupler delivery system and hoses are disconnected, triple rinsed with clean water and drained accordingly. When the contents of the container have been used, please return the container to the point of purchase. The container remains the property of Adama Australia.

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| GROUP | 1 | FUNGICIDE |
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1000 L only: Storage must be secure so that contents cannot be tampered with. All locks and/or seals must be in order. If locks or seals are broken prior to initial use then the integrity of this product cannot be assured. If this occurs Adama Australia should be advised immediately. This intermediate bulk container is reusable and remains the property of Adama Australia. DO NOT rinse empty container. Empty contents fully into application equipment. Close all valves and return to the point of supply for refill or storage. No other liquid, solid or pesticide product should be put into it. When empty return to Adama Australia for cleaning, relabelling and refilling.

SAFETY DIRECTIONS

WARNING – Contains carbendazim which causes birth defects and irreversible male infertility in laboratory animals. Avoid contact with carbendazim. 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 and using the prepared spray, wear elbow-length chemical resistant gloves and 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.

SDS

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

CONDITIONS OF SALE: The use of HOWZAT® SC 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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07/2023 23895