

# 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.com

CONTENTS: 5 L, 10 L, 20 L

### DIRECTIONS FOR USE

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

#### 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	
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.

#### 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 intervals. 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. Wetspray®, 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

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  $3 \times 10$ , 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.

## PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

**Drift Warning:** DO NOT apply under weather conditions or from spraying equipment that may cause drift onto nearby susceptible plants/crops, cropping lands or pastures.

## 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. 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

**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 and preparing 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 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.

® Registered trademarks of an Adama Group Company

## NOT A DANGEROUS GOOD ACCORDING TO THE AUSTRALIAN DANGEROUS GOODS (ADG) CODE.

03/2017 8758

