

READ SAFETY DIRECTIONS BEFORE OPENING OR USING

Zeal[®]
MITICIDE

ACTIVE CONSTITUENT: 110 g/L ETOXAZOLE

GROUP 10B INSECTICIDE

For control of mites in cotton, as specified in the Directions for Use table.

GENERAL INSTRUCTIONS

CROP MONITORING

Effective mite control depends upon regular monitoring of crops during the season at 3-5 day intervals.

MIXING/APPLICATION

Measure the required amount of ZEAL, add to the partly filled spray tank and then add the remainder of the water.

INSECTICIDE RESISTANCE WARNING

GROUP 10B INSECTICIDE

For insecticide resistance management ZEAL Selective Miticide is a Group 10B miticide.

Some naturally occurring mite biotypes resistant to ZEAL and other Group 10B miticides may exist through normal genetic variability in any mite population. The resistant individuals can eventually dominate the mite population if ZEAL or other Group 10B miticides are used repeatedly. The effectiveness of ZEAL on resistant individuals could be significantly reduced. Since the occurrence of resistant individuals is difficult to detect prior to use, Sumitomo Chemical Australia Pty Ltd accepts no liability for any losses that may result from the failure of ZEAL to control resistant mites. ZEAL may be subject to specific resistance strategies. For further information contact your local supplier, Sumitomo Chemical Australia Pty Ltd representative or local department of agriculture agronomist. To ensure ZEAL remains effective **DO NOT** use ZEAL more than once per season.

STORAGE AND DISPOSAL

Store in the closed original container in a well-ventilated area, as cool as possible, although avoid freezing. **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 deliver empty packaging for appropriate disposal 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.

SAFETY DIRECTIONS

Will irritate the eyes. Avoid contact with the eyes.

When opening the container and preparing spray wear cotton overalls buttoned to the neck and wrist (or equivalent clothing), a washable hat and elbow-length gloves.

When using the prepared spray wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and a washable hat.

Wash hands after use. After each day's use wash gloves and contaminated clothing.

RE-ENTRY

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.

FIRST AID

If poisoning occurs contact a doctor or Poisons Information Centre. Phone Australia 13 11 26.

SAFETY DATA SHEET

Additional information is listed in the Safety Data Sheet (SDS) which can be obtained from Sumitomo Chemical.

IMPORTANT NOTICE

These goods are to be used only for the purpose and as specified on the label, and are not suitable for any other purpose. To the fullest extent permitted by law, we do not accept or bear any liability on any basis for any loss, damage, cost or expense, arising in any way, directly or indirectly, in connection with the goods.

THIS PRODUCT IS NOT CONSIDERED TO BE A DANGEROUS GOOD UNDER THE AUSTRALIAN CODE FOR THE TRANSPORT OF DANGEROUS GOODS BY ROAD OR RAIL	
IN A TRANSPORT EMERGENCY DIAL 000 POLICE OR FIRE BRIGADE	SPECIALIST ADVICE IN AN EMERGENCY ONLY ALL HOURS - AUSTRALIA WIDE 1800 033 111

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APVMA Approval No: 82491/105873

DIRECTIONS FOR USE:

RESTRAINTS

DO NOT apply if rainfall is expected before spray has dried.

DO NOT apply more than one spray per season as over-use may lead to development of mite resistance.

SPRAY DRIFT RESTRAINTS

DO NOT apply with spray droplets smaller than a MEDIUM spray droplet size category according to nozzle manufacturer specifications that refer to the ASAE S572 Standard or the British Crop Production Council guideline.

DO NOT apply when wind speed is less than 3 or more than 20 kilometres per hour, as measured at the application site.

DO NOT apply during surface temperature inversion conditions at the application site.

Users of this product **MUST make an accurate written record** of the details of each spray application within 24 hours following application and **KEEP** this record for a minimum of 2 years. The spray application details that must be recorded are: **1** date with start and finish times of application; **2** location address and paddock/s sprayed; **3** full name of this product; **4** amount of product used per hectare and number of hectares applied to; **5** crop/situation and weed/pest; **6** wind speed and direction during application; **7** air temperature and relative humidity during application; **8** nozzle brand, type, spray angle, nozzle capacity and spray system pressure measured during application; **9** name and address of person applying this product. (Additional record details may be required by the state or territory where this product is used.)

MANDATORY NO-SPRAY ZONES

Very toxic to aquatic life

DO NOT apply when there are aquatic and wetland areas including aquacultural ponds or surface streams and rivers downwind from the application area and within the mandatory no-spray zones shown in Table 1 below.

Table 1 – Mandatory No-Spray Zones for Protection of the Aquatic Environment

For aerial application (cotton)		
Wind speed range at time of application	Downwind mandatory no-spray zone	
	Fixed-wing	Helicopter
from 3 to 8 kilometres per hour	40 metres	40 metres
from 8 to 14 kilometres per hour	40 metres	40 metres
from 3 to 20 kilometres per hour	60 metres	60 metres
For ground application (boom)		
Wind speed range at time of application – from 3 to 20 kilometres per hour		
Crop	Downwind mandatory no-spray zone	
Cotton	10 meters	

DO NOT apply if there are livestock, pasture or any land that is producing feed for livestock downwind from the application area and within the mandatory no-spray zones shown in Table 2 below:

Table 2: No-spray zones for the protection of international trade

For aerial application (cotton)		
Wind speed range at time of application	Downwind mandatory no-spray zone	
	Fixed-wing	Helicopter
from 3 to 20 kilometres per hour	20 metres	20 metres
For ground application (boom)		
Wind speed range at time of application – from 3 to 20 kilometres per hour		
Crop	Downwind mandatory no-spray zone	
Cotton	Not Required	

SITUATION	PEST	RATE / ha	CRITICAL COMMENTS
Cotton Ground and Aerial application	Two-spotted mite (<i>Tetranychus urticae</i>), Bean spider mite (<i>Tetranychus ludeni</i>)	350 mL	<p>Apply when the threshold for your area has been reached. As a guide this is generally when 20-30% of the leaves have mites or when mite numbers are increasing at 1% per day. Best results will be obtained when ZEAL is applied to low but increasing populations.</p> <p>Good coverage is essential. For aerial application use a minimum of 30 L spray volume per hectare.</p> <p>Generally ZEAL takes about 7 days to reach maximum mite control.</p> <p>If re-treatment is required, use an approved miticide from a different chemical group. Refer to notes on resistance under General Instructions section of this label.</p>

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

WITHHOLDING PERIODS:

COTTON:

DO NOT HARVEST FOR 21 DAYS AFTER APPLICATION

DO NOT GRAZE TREATED CROPS OR FEED COTTON TRASH TO LIVESTOCK