

Zeal®

SELECTIVE 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 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

May 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) and elbow-length chemical resistant gloves.

When using the prepared spray wear cotton overalls buttoned to the neck and wrist (or equivalent clothing). 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 131 126; New Zealand 0800 764 766.

SAFETY DATA SHEET

Additional information is listed in the Safety Data Sheet (SDS) obtained from Sumitomo Chemical Australia Pty Ltd.

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.

In a Transport Emergency Dial 000 Police or Fire Brigade	SPECIALIST ADVICE IN EMERGENCY ONLY 1800 033 111 ALL HOURS - AUSTRALIA WIDE
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APVMA Approval No: 82491/133768

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DIRECTIONS FOR USE

Restrictions:

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

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. The buffer zones in the relevant buffer zone tables below provide guidance but may not be sufficient in all situations. 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.

DO NOT apply by aircraft unless the following requirements are met:

- Spray droplets not smaller than a Medium spray droplet size category.
- For release heights 25% of wingspan or 25% of rotor diameter or lower above the target canopy, minimum distances between the application site and downwind sensitive areas (see 'Mandatory buffer zones' section) are observed.

Buffer Zones for Aircraft

WIND SPEED	AIRCRAFT TYPE	MANDATORY DOWNWIND BUFFER ZONES (distance given in metres)	
		NATURAL AQUATIC AREAS	LIVESTOCK AREAS
From 3 to 8 km/h	Fixed-wing	40	20
	Helicopter	40	20
From 8 to 14 km/h	Fixed-wing	40	20
	Helicopter	40	20
From 14 to 20 km/h	Fixed-wing	60	20
	Helicopter	60	20

DO NOT apply by a boom sprayer unless the following requirements are met:

- Spray droplets not smaller than a Medium spray droplet size category.
- Minimum distances between the application site and downwind sensitive areas (see 'Mandatory buffer zones' section) are observed.

Buffer Zones for Boom Sprayer

APPLICATION RATE	MANDATORY DOWNWIND BUFFER ZONES (distance given in metres)	
	NATURAL AQUATIC AREAS	LIVESTOCK AREAS
Up to maximum label rate	10	0

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	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. Good coverage is essential. For aerial application use a minimum of 30 L spray volume per hectare. Generally ZEAL® takes about 7 days to reach maximum mite control. 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.

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.