

# CAUTION

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

TITAN

# DIAFENTHIURON 500 SC

## MITICIDE/INSECTICIDE

ACTIVE CONSTITUENT: 500g/L DIAFENTHIURON

GROUP **12A** INSECTICIDE



Controls Two-spotted Mite and Cotton Aphids and suppresses Silverleaf Whitefly in Cotton.

Controls Redlegged Earth Mite and suppresses Lucerne Flea in Canola.

APVMA Approval No.: 85579/146533

Pack Size: 20L-1000L



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**SC**

Formulation Type  
**Suspension Concentrate**

**IN A TRANSPORT EMERGENCY**  
• DIAL 000 • POLICE OR FIRE BRIGADE

TRANSPORT AND HANDLING NOT  
A DANGEROUS GOOD ACCORDING  
TO THE AUSTRALIAN DANGEROUS  
GOODS (ADG) CODE FOR TRANSPORT  
BY ROAD AND RAIL

## DIRECTIONS FOR USE

### Restrictions:

DO NOT reapply to the same crop within six weeks or as a consecutive treatment.  
DO NOT apply if rainfall is expected within six hours of application.

### SPRAY DRIFT RESTRAINTS

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

CROP	PEST	RATE/ha	CRITICAL COMMENTS
Cotton (QLD, NSW, NT, WA only)	Two-spotted Mite ( <i>Tetranychus urticae</i> ), Cotton Aphid ( <i>Aphis gossypii</i> ) Suppression of Silverleaf Whitefly ( <i>Bemisia tabaci</i> )	600 or 800mL	<p><b>Mites:</b> apply before mite damage occurs or when 30% of plant leaves are infested. Alternatively apply when 15% of plants are infested and the rate of increase is such that 30% of plants are likely to be infested within 7 to 10 days.</p> <p>Treatment at higher infestation levels may lead to unsatisfactory results. When sampling for mites follow the current CSIRO sampling method.</p> <p><b>Aphids:</b> Apply before aphid damage occurs. A repeat application can be made, if required, provided this is in keeping with resistance management guidelines.</p> <p>Only use the lower rate when application is by ground based equipment.</p> <p>Thorough spray coverage is essential. Ground application should involve the use of droppers with nozzles pointing upwards to ensure adequate deposits on the underside of leaves.</p> <p>Apply TITAN Diafenthiuron 500 SC Miticide/Insecticide under a pest management program that includes regular crop checking.</p> <p><b>Silverleaf Whitefly:</b> Apply when population densities are still at low to moderate levels (10 to 20% of leaves infested). Suppression may not be satisfactory once population densities exceed 25% infestation, or when high numbers of adults are invading from nearby fields.</p>
Canola	Redlegged Earth Mite ( <i>Halotydeus destructor</i> )	400 or 600mL	<p>Begin applications from cotyledon stage when action thresholds are reached. Use the higher rate under heavy mite infestations and/or where conditions favour rapid pest development. The higher rate may also provide a longer period of control under conditions of moderate pest pressure.</p> <p>Thorough coverage is essential. Ensure water volume and spray quality is adequate to thoroughly cover all parts of the crop.</p> <p>Continue to monitor crops and make further insecticide applications as necessary.</p> <p>DO NOT apply more than 2 applications in any one crop.</p> <p>For best results, TITAN Diafenthiuron 500 SC Miticide/Insecticide should be used as part of an integrated pest management program incorporating cultural practices, farm hygiene, seed treatments and rotation of miticides with different modes of action.</p>
	Suppression of Lucerne Flea ( <i>Sminthurus viridis</i> )	300mL	<p>Begin applications from cotyledon stage when action thresholds are reached. Thorough coverage is essential. Ensure water volume and spray quality is adequate to thoroughly cover all parts of the crop. Continue to monitor crops and make further insecticide applications as necessary.</p> <p>DO NOT apply more than 2 applications in any one crop.</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 14 DAYS AFTER APPLICATION.**

**GRAZING: DO NOT FEED TREATED COTTON FODDER OR COTTON TRASH TO LIVESTOCK.**

### Canola

**HARVEST: DO NOT HARVEST FOR 11 WEEKS AFTER APPLICATION.**

**GRAZING: DO NOT GRAZE OR CUT FOR STOCKFOOD FOR 21 DAYS AFTER APPLICATION.**



## GENERAL INSTRUCTIONS

### MIXING

DO NOT use in open mixing and loading systems. Add the required amount of TITAN Diafenthiuron 500 SC Miticide/Insecticide to clean water in half filled spray tank with the agitator or by-pass in operation. Maintain agitation while filling tank with remainder of water. Agitation must also be maintained throughout the spray operation.

### APPLICATION

To be effective TITAN Diafenthiuron 500 SC Miticide/Insecticide requires thorough spray coverage. Ensure that equipment is properly calibrated to give an even distribution at the correct volume.

**Ground Application:** Apply in a minimum of 100L of water/ha. The use of hollow cone nozzles and droppers is recommended.

**Aerial Application:** Apply in a minimum of 20L of water/ha, with a minimum VMD of 130µm.

TITAN Diafenthiuron 500 SC Miticide/Insecticide should not be applied when wind speeds are below 1m/s or exceed 4m/s. Application of TITAN Diafenthiuron 500 SC Miticide/Insecticide should be avoided when temperatures exceed 30°C or when conditions are unstable.

### COMPATIBILITY

As formulations of other manufacturer's products are beyond the control of TITAN AG and the quality of water may vary with location, all mixtures should be tested prior to mixing commercial quantities.

### INSECTICIDE RESISTANCE WARNING

For insecticide resistance management TITAN Diafenthiuron 500 SC Miticide/Insecticide is a Group 12A insecticide. Some naturally occurring insect biotypes resistant to TITAN Diafenthiuron 500 SC Miticide/Insecticide and other Group 12A insecticides may exist through normal genetic variability in any insect population. The resistant individuals can eventually dominate the insect population if TITAN Diafenthiuron 500 SC Miticide/Insecticide and other Group 12A insecticides are used repeatedly. The effectiveness of TITAN Diafenthiuron 500 SC Miticide/Insecticide on resistant individuals could be significantly reduced. Since occurrence of resistant individuals is difficult to detect prior to use, TITAN AG Pty Ltd accepts no liability for any losses that may result from failure of TITAN Diafenthiuron 500 SC Miticide/Insecticide to control resistant insects.

TITAN Diafenthiuron 500 SC Miticide/Insecticide may be subject to specific resistance management strategies. For further information contact your supplier, TITAN AG representative or local agricultural department agronomist. TITAN Diafenthiuron 500 SC Miticide/Insecticide should only be used whilst following the guidelines of the current Insecticide Resistance Management Strategy (IRMS) and cotton Best Management Practices (BMP) Manual.

### PRECAUTIONS

Manual flagging is not permitted during aerial spraying of TITAN Diafenthiuron 500 SC Miticide/Insecticide.

**Re-entry Period:** DO NOT allow entry into treated areas for 24 hours after treatment. When prior entry is necessary, limit duration of entry and wear cotton overalls buttoned to the neck and wrists, and elbow-length PVC gloves. Clothing must be washed after each day's use.

**Cotton chippers:** DO NOT allow entry into treated areas for 24 hours after treatment. When entering treated areas between 24 to 72 hours after treatment, wear cotton overalls buttoned to the neck and wrists (or equivalent clothing) and gloves. Clothing must be washed after each day's use.

### PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

Very dangerous to fish and crustaceans. DO NOT contaminate streams, rivers or watercourses with the chemical or used containers. For aerial application, do NOT apply under weather conditions that may cause spray to drift onto open bodies of water. When passing over water bodies ensure boom spray is turned off.

### PROTECTION OF HONEY BEES AND OTHER INSECT POLLINATORS

Dangerous to bees. DO NOT spray any plants in flower while bees are foraging. A spray drift minimisation strategy should be employed at all times when aerially applying spray to, or near, sensitive areas. The strategy envisaged is exemplified by the Cotton industry's Best Management Practice Manual.

## STORAGE AND DISPOSAL

**For non-refillable containers:** 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 the 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 to an approved waste management facility. If an approved waste management facility is not available, bury 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 Local, State or Territory government regulations. DO NOT burn empty containers or product.

**For refillable containers:** Store in the closed, original container in a cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight. Empty contents fully into application equipment. Close valves and return to point of supply for refill and storage.

## SAFETY DIRECTIONS

Harmful if swallowed or inhaled. Will irritate the eyes and skin. Avoid contact with eyes and skin. DO NOT inhale spray mist. When opening the container, mixing and loading and using the prepared spray wear cotton overalls, over normal clothing, buttoned to the neck and wrist, a washable hat and elbow-length PVC gloves. Wash hands after use. After each day's use, wash gloves and contaminated clothing.

## FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 131126; New Zealand 0800 764 766.

## SAFETY DATA SHEET

Additional information is listed in the safety data sheet (SDS). A safety data sheet for TITAN Diafenthiuron 500 SC Miticide/Insecticide is available from TITAN AG Pty Ltd on request. Call Customer Service on (02) 9999 6655 or visit titanag.com.au

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

Additional statements required by Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia: Fatal if inhaled. May cause damage to the respiratory system through prolonged or repeated exposure. **Precautionary Statements:** Do not breathe dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. Wear respiratory protection. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER/doctor. Specific treatment is urgent (see on this label). Get medical advice/attention if you feel unwell. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents/container in accordance with local/regional/national regulations.

