

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



**Dow AgroSciences**

# Applaud<sup>®</sup>

## Insecticide

ACTIVE CONSTITUENT: 440 g/L BUPROFEZIN

**GROUP 16 INSECTICIDE**

For the control of red scale and white louse scale, jassids (leafhoppers) and longtail, citrus and citrophilous mealybugs in citrus crops; mealybugs in grapes and pears; mealybugs and scales in persimmons, custard apples and passion fruit; mango scale in mangos and whitefly in tomato (protected cropping) as specified in the Directions for Use.

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**Dow AgroSciences**

## DIRECTIONS FOR USE (All States)

### RESTRAINTS:

**DO NOT** apply by air.

**DO NOT** apply more than twice per year in any crop.

**Wine grapes: DO NOT** apply later than 80% capfall.

**Tomatoes (protected cropping): DO NOT** apply using spraying equipment carried on the back of the user.

<i>In the following table, all rates are given for dilute spraying. For concentrate spraying refer to the "Concentrate Spraying" Section.</i>			
TREE AND VINE CROPS	INSECT PEST	RATE/100 L WATER	CRITICAL COMMENTS
Citrus including: Oranges Lemons Mandarins Grapefruit Limes	Red scale, White louse scale, Longtail mealybug, Citrus mealybug, Citrophilous mealybug	30 - 60 mL	<b>Scales:</b> Apply when there is heavy crawler emergence, particularly in late summer. Where the infestation is severe, a second application may be required 14 - 28 days later. <b>Applaud®</b> Insecticide works best in an integrated pest management (IPM) programme where parasites such as <i>Aphytis</i> spp. are active. <b>Mealybugs:</b> Apply if thresholds are exceeded in spring-summer. Repeat after 21 - 28 days if necessary. <b>Rate:</b> Use the high rate when heavy infestations of the pests occur and/or where IPM systems have not effectively managed pest populations.
	Jassids (leafhoppers)	30 mL	Apply when thresholds are exceeded in January and again in February if required. Apply when juvenile stages predominate.
Custard apples	Mealybugs, Scale insects	30 - 60 mL	Apply a maximum of two (2) sprays per season, 21 days apart, as a high volume cover spray to run-off using air blast or high volume hydraulic nozzles.
Grapes	Longtail mealybug and Tuber mealybug	30 - 60 mL	Apply twice, 14 - 21 days apart, starting when the first emergence of crawlers is observed. Use the high rate when heavy infestations occur and/or where IPM systems have not effectively managed pest populations.
Mangos	Mango scale	60 mL	Monitor scales and apply when the majority of crawlers have emerged. This usually coincides with tree flushing after harvest and in spring when fruit are 1.5 to 2.0 cm across. A repeat application within 14 - 28 days may be necessary. <b>DO NOT</b> use mineral oils as fruit blotching may occur.
Passion fruit	Mealybugs, Scale insects	30 - 60 mL	Apply a maximum of two (2) sprays per season, 21 days apart when significant pest infestations develop. Apply as a high volume cover spray to run-off using air blast or high volume hydraulic nozzles.
Pears	Longtail mealybug	30 - 60 mL	Apply twice, 10 - 14 days apart between swollen bud and the end of flowering in sufficient volume to ensure the bark is soaked, with thorough coverage to the point of run-off. Use the high rate when heavy infestations occur and/or where IPM systems have not effectively managed pest populations, particularly under harsh environmental conditions.
Persimmons	Mealybugs, Scale insects	60 mL	Apply a maximum of two (2) sprays per season, 14 days apart. Apply when the first batch of scale or mealybug crawlers occur after winter.
Tomatoes (protected cropping)	Greenhouse whitefly ( <i>Trialeurodes vaporariorum</i> ) and Silverleaf whitefly ( <i>Bemisia tabaci</i> )	30 mL	Apply using boomspray equipment when pest first appears and make a second application 14 days later. Application should be aimed at the early nymph stages of whitefly. Spray in sufficient volume to provide adequate penetration and coverage.
<b>NOTE:</b> To optimise control of mealybugs in most crops it is critical to time treatment to coincide with the first emergence of crawlers. If it is intended to release <i>Cryptolaemus</i> ladybeetles as part of an IPM system, the last application of Applaud should be made no later than 60 days before the anticipated release date.			

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



## WITHHOLDING PERIODS (HARVEST)

Passion Fruit:

**DO NOT HARVEST FOR 1 DAY AFTER APPLICATION**

Custard Apple:

**DO NOT HARVEST FOR 2 WEEKS AFTER APPLICATION**

Citrus, Mango & Persimmon:

**DO NOT HARVEST FOR 4 WEEKS AFTER APPLICATION**

Pears & Table Grapes:

**DO NOT HARVEST FOR 8 WEEKS AFTER APPLICATION**

Tomatoes (protected cropping):

**DO NOT HARVEST FOR 7 DAYS AFTER APPLICATION**

Wine Grapes:

**NOT REQUIRED WHEN USED AS DIRECTED**

(i.e. **DO NOT apply Applaud after 80% capfall**).

**Crops such as table grapes grown for export may require a longer interval before harvest to comply with residue standards of importing countries. Please check with your exporter before using Applaud Insecticide.**

## GENERAL INSTRUCTIONS

### Mixing/Application

Prior to pouring, shake container vigorously, then add the required quantity of Applaud Insecticide to water in the spray vat while stirring or with agitators in motion.

### 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 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:

$3 \times$  (i.e.  $1500 \text{ L} \div 500 \text{ L} = 3$ )

4. As the lower dilute label rate is 30 mL/100 L, then the corresponding concentrate rate becomes  $3 \times 30$ , that is 90 mL/100 L of concentrate spray.

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.

Do not use a concentrate rate higher than that specified in the Critical Comments.

For further information on concentrate spraying, users are advised to consult relevant industry guidelines, undertake appropriate competency training and follow Industry Best Practices.

### Application Instructions: Citrus Only

Apply Applaud Insecticide in sufficient water to ensure complete wetting of all surfaces.

### Oscillating booms

A spray volume of 7,000 to 12,000 L water/ha should be used for trees up to 5m high. To optimise control the following application procedures are recommended:

- ground speed 2.3 to 2.75 km/h
- pump pressure 3000 to 5000 kPa
- oscillation rate 90 - 110 oscillations per minute
- spray pattern adjacent cones marrying at about 1.75 m (i.e. narrow cone angle, but the maximum angle consistent with good tree penetration).
- agitation 1 large paddle per 500 L; paddles should clear the bottom of the vat by about 10 mm and should have the same orientation.
- boom set set angle of top to match tree size.

### Airblast sprayers

Airblast sprayers may be used for control of jassids/leafhoppers, but are less suitable for control of scales and mealy bugs. For jassid control, use spray volumes of approximately 5000 L/ha.

## COMPATIBILITY

Applaud Insecticide is compatible with Dithane™ Rainshield™ Neo Tec™ Fungicide and a number of other agricultural chemicals commonly used on the same crops. Please contact your supplier or Dow AgroSciences representative for further information on compatibility.

Applaud Insecticide is **not compatible** with Sacoa BioPest® Oil or with products that are highly alkaline or highly acidic.



## CLEANING SPRAY EQUIPMENT

After using Applaud Insecticide, empty the tank completely and drain the whole system. Thoroughly wash inside the tank using a pressure hose, drain the tank and clean all filters in the tank, pump, pump, lines and nozzles.

After cleaning the tank and filters as above, quarter fill the tank with clean water and circulate through the pumps, lines, hoses and nozzles. Drain and repeat the rinsing procedure twice.

Rinse water should be discharged onto a designated disposal area, or if this is unavailable, onto unused land away from plants and water courses.

## INSECTICIDE RESISTANCE WARNING

### GROUP 16 INSECTICIDE

For insecticide resistance management Applaud is a Group 16 insecticide. To minimise the risk of resistance developing, a total of no more than two applications of Applaud Insecticide should be made on a crop per season. Some naturally occurring insect biotypes resistant to Applaud and other Group 16 insecticides may exist through normal genetic variability in any insect population. The resistant individuals can eventually dominate the insect population if Applaud or other Group 16 insecticides are used repeatedly. The effectiveness of Applaud on resistant individuals could be significantly reduced. Since occurrence of resistant individuals is difficult to detect prior to use, Dow AgroSciences accepts no liability for any losses that may result from the failure of Applaud to control resistant insects. Applaud may be subject to specific resistance management strategies. For further information contact your local supplier, Dow AgroSciences representative or call Customer Service Toll Free on 1-800 700 096.

## PRECAUTIONS

### Re-entry Period:

**DO NOT** enter treated areas without protective clothing until the spray has dried.

### Tomatoes (protected cropping)

Low exposure activities – **DO NOT** enter treated areas without protective clothing until spray has dried to perform activities such as transplanting and hand watering.

High exposure activities – **DO NOT** enter treated areas for 7 days without protective clothing to perform activities such as hand harvesting, hand pruning, hand weeding, scouting and tying/training.

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

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

## PROTECTION OF LIVESTOCK

**DO NOT** allow stock to graze grasses or weeds under treated trees.

## PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

**DO NOT** contaminate streams, rivers or waterways with the chemical or used containers.

May be toxic to crustaceans. Runoff from treated areas should be prevented from entering waterways.

**DO NOT** apply if heavy rain is imminent.

Irrigation should not take place within 24 hours of treatment.

## PROTECTION OF NON-TARGET INSECTS

Applaud Insecticide at label rates of 30 to 60 mL/100 L water has been demonstrated to be safe to a range of predatory and beneficial insects including bumblebees and honeybees, parasitoid wasps such as *Aphytis lignanensis*, *Leptomastix dactylopii* and *Encarsia* spp., predatory mites such as *Phytoseiulus persimilis* and *Typhlodromus occidentalis* and the green lacewing (*Mallada signatus*). Applaud Insecticide has no significant effect on adult ladybeetles but is known to be toxic to early instars of *Cryptolaemus montrouzieri*, *Chilocorus circumdati* and *Harmonia conformis*. Applaud Insecticide may also affect egg hatch of these species for 2 to 3 weeks after application.

## STORAGE AND DISPOSAL

Store in the closed, original container in a cool well-ventilated area. **DO NOT** store for prolonged periods in direct sunlight.

**DO NOT** store near foodstuffs, fertilisers or seed.

This container can be recycled if it is clean, dry, free of visible residues and has the *drumMUSTER* logo visible. Triple or pressure rinse container for disposal. Dispose of rinsate by adding to the spray tank. Do not dispose of undiluted chemicals 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 site. The cap should not be replaced but may be taken separately. 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.

## SMALL SPILL MANAGEMENT

Wear protective equipment (see SAFETY DIRECTIONS). Apply absorbent material such as earth, sand, clay granules or cat litter to the spill. When absorption is completed, sweep up material and contain in a refuse vessel for disposal (see STORAGE AND DISPOSAL section). If necessary wash the spill area with an alkali detergent and water and absorb the wash liquid for disposal as described above.



## SAFETY DIRECTIONS

- May irritate the eyes.
- Avoid contact with eyes.
- Wash hands after use.
- When opening the container, preparing spray and using the prepared spray, wear cotton overalls, over normal clothing, buttoned to the neck and wrist, a washable hat and elbow-length chemical resistant gloves.
- After each day's use, wash gloves, and contaminated clothing.

## FIRST AID

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

## MATERIAL SAFETY DATA SHEET

Additional information is listed on the Material Safety Data Sheet for **APPLAUD® INSECTICIDE** which is available from Dow AgroSciences on request. Call Customer Service Toll Free on 1-800 700 096 or visit [www.dowagrosciences.com.au](http://www.dowagrosciences.com.au)

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**EMERGENCY RESPONSE  
(ALL HOURS)**  
RING FROM ANYWHERE  
IN AUSTRALIA  
**1-800 033 882**  
(LOCAL CALL FEE ONLY)

IN A TRANSPORT  
EMERGENCY ONLY  
**DIAL 000**  
FOR POLICE OR  
FIRE BRIGADE



This product is GHS compliant. No additional GHS hazard and precautionary statements are required under the WorkSafe Australia exemptions for AgVet products.



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