

CAUTION

KEEP OUT OF REACH OF CHILDREN

READ SAFETY DIRECTIONS BEFORE OPENING OR USING

TITAN

Imidacloprid 200

Insecticide

ACTIVE CONSTITUENT: 200g/L IMIDACLOPRID

GROUP **4A** INSECTICIDE

For the control of various insect pests of certain vegetables and turf as specified in the directions for use table.

IMPORTANT: READ THOROUGHLY BEFORE OPENING OR USING THIS PRODUCT.

APVMA Approval No.: 63238/59656

Contents: 1L-10L; 20L



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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
Foliar Spray Application

CROP	PEST	RATE	WHP	CRITICAL COMMENTS
Cotton	Aphids	250 mL/ha + Pulse Penetrate at 0.2% v/v (2mL/L water) or equivalent organosilicone surfactant* * Check with TITAN AG for recommended organosilicone surfactants	13 weeks	The addition of Pulse Penetrate or equivalent is critical for the performance of TITAN Imidacloprid 200 Insecticide. Apply early in the establishment of an aphid infestation when numbers are low (ie no more than 1 or 2 leaves per plant with honeydew present). Applications made later than this may result in reduced control. Shorter residual control may be evident and a repeat application of a registered aphicide (follow the Cotton Insecticide Resistance Management Strategy for cotton aphid) may be required to achieve complete control: <ul style="list-style-type: none"> • if applications of TITAN Imidacloprid 200 Insecticide plus Pulse or equivalent are timed too late (see above); or • if existing high density aphid colonies (hotspots) are present; or • if aphids have established throughout the plant canopy (especially lower in the canopy); or • if there is high reinfestation pressure; or • if there is rapid crop growth; or • if TITAN Imidacloprid 200 Insecticide plus Pulse or equivalent is used following a spray failure (eg resistance to organophosphate or carbamate insecticides). <p>Note: Where resistance to carbamates or organophosphates is suspected, TITAN Imidacloprid 200 Insecticide plus Pulse or equivalent should be used first so as not to delay control of the aphids present. Aphids treated with TITAN Imidacloprid 200 Insecticide plus Pulse or equivalent may still be present on the plant but will not be feeding. Control of aphids should initially be assessed by a reduction in fresh honeydew and not on the presence of aphids on the plant. After ingesting TITAN Imidacloprid 200 Insecticide, aphids may take up to 5 days to die.</p>
	Mirids, Brown Flea Beetle			Apply when pest number reach treatment threshold levels as determined by field checks.
Cucurbits	Green Peach Aphid	25mL/100L or 300mL/ha	1 day	Apply at first sign of aphid infestation.
Capsicum, Egg plant, Potato			7 days	
Tomato			3 days	
Brassicas	Grey Cabbage Aphid, Turnip Aphid		7 days	Apply at first sign of aphid infestation. Add a wetting agent.
Sweet Potato	Silverleaf Whitefly, including type B	25mL/100L or 250mL/ha	7 days	Apply at first sign of Whitefly or Turnip Thrips infestation. Apply dilute sprays (25mL/100L) to run-off. Ensure thorough coverage of underside of leaves. Use of droppers will improve coverage of underside of leaves.
Cucumber			1 day	
Egg plant	Melon Thrips		7 days	
Stone Fruit	Green Peach Aphid, Black Peach Aphid	Dilute spraying 25mL/100L Concentrate spraying Refer to the Mixing/Application section	21 days	Apply at first sign of aphid infestation. Apply as a full cover spray, ensuring thorough coverage. Apply by dilute or concentrate spraying equipment. Apply the same total amount of product to the target crop whether applying this product by dilute or concentrate spraying methods. DO NOT use in equipment that requires rates greater than 125mL/100L of water (i.e. greater than 5 x concentrate).
Ornamental Plants	Aphids, Azalea Lace Bug, Bronze Orange Bug, Harlequin Bug, Citrus Mealybug, Greenhouse Thrips, Fullers Rose Weevil	25mL/100L	–	Apply as a thorough cover spray at first sign of insect infestation.
	Hibiscus Flower Beetle	50mL/100L		Spray buds and flowers as needed.
	Longtailed Mealybug	50mL/100L + surfactant		Apply 3 sprays 2 weeks apart. Use a non-ionic surfactant at label rate.
	Psyllids	25mL/100L		Spray at first sign and then a week later.
	Soft Scales	25mL/100L		Spray in late spring or when small scales are first seen. Apply 3 sprays 2 weeks apart. Add a wetting agent.
Duboisia	Green Peach Aphid	25mL/100L		Apply when aphid numbers reach spray threshold levels as determined by regular monitoring. Ensure thorough coverage of all leaves.
Pandanus Trees	Flatid (<i>Jamella australiae</i>)	Spot spray 875mL/100L of water Stem injection 1.75L/1L of water		Spot spray: Spray 100mL of mixture directly into the leafy throat of each head. Stem injection: Drill holes 0.5 to 1cm in diameter and 10cm deep at an angle of 30° 1 to 1.5m above ground level. Drill one hole per limb (or trunk in single trunked trees). Apply 5mL of mixture in each hole and seal the hole. DO NOT re-apply in the same holes. Uptake of TITAN Imidacloprid 200 Insecticide, and therefore control of the pest in heavily infested heads already showing severe damage, will be slow and may be incomplete.

DIRECTIONS FOR USE**Foliar Spray Application – continued**

CROP	PEST	RATE	WHP	CRITICAL COMMENTS
Turf	First instar larvae of: Black Beetle, Argentinian Scarab, Purinose Scarab	2.5L/ha or 25mL/100m ² Spray with at least 400L water per hectare to ensure even coverage. Preferably spray on to wet or dewy grass. Irrigate with 12mm of water commencing within one hour of application.		Apply at peak egg hatch, which is mid Spring to mid Summer depending on species.
	Larvae of Billbug			Monitor adult activity through late Spring and early Summer. Spray when numbers peak, or when small larvae (4mm) are found in the thatch or surface soil. Early application is essential to minimise grass damage due to feeding.

Soil Drench Application

CROP	PEST	RATE	CRITICAL COMMENTS
Apples	Woolly Aphid	Chemical Control 6mL/1L of water/ tree. Beneficial insect plus chemical control (eg <i>Aphelinus mali</i> plus Confidor 3mL/1L of water/tree)	For trees up to 7 years of age. During late summer or autumn., apple trees with woolly aphid colonies or damage should be identified and marked for treatment the following season. At green tip to petal fall, apply 1 litre of the prepared TITAN Imidacloprid 200 Insecticide mixture to moist soil immediately around the base of the tree trunk. Ensure the mixture infiltrates the soil around the trunk and does not run off the soil. Control weeds before application. DO NOT disturb or remove the soil around the trunk during the season. If aerial colonies are present at application, maximum effectiveness may not be achieved until the following season. DO NOT treat more than once in any 2 year period.
Elm	Elm Leaf Beetle	7mL/25mm of tree diameter at breast height	Mix the required dose in sufficient water to adequately treat each tree. Use at least 50L of mix per tree up to a tree diameter of 400-500mm and then 100L per tree for larger trees. Inject mix to a depth of 20-30cm in a minimum of 4 injection sites per tree, 0.75 to 1.5m apart, arranged in an evenly spaced grid to just beyond the drip line. Ensure root zone is adequately moist with active root growth. Keep treated area moist for 7-10 weeks prior to pest attack in late Winter or early Spring when roots are active. DO NOT treat if soil is waterlogged.
Seedling eucalyptus (to 1m high) in pots	Chrysomelid Beetle larvae, Psyllids	2.5mL/plant	Mix in water up to 0.5L per 3L pot and apply to soil. Use less water for smaller pots. DO NOT dilute to the point where mix runs out the bottom of pots.
Azaleas in pots	Azalea Lace Bug	3.5mL/5L water/ pot	Use a soil drench for pots up to 20L capacity.
Ornamentals in pots	Scarab Beetle larvae	3.5mL/5L water	Use a soil drench. 5L of mixture will treat twenty 6L pots.
Roses	Aphids	3.5mL/2L water/plant	Use a soil drench by pouring mixture evenly around drip zone. Use this rate for plants up to 1m high. For each additional metre of plant height add 2mL extra of TITAN Imidacloprid 200 Insecticide to the 2L of water.
For soil drench treatments, remove mulch and dead vegetation, and moisten the soil surface first. Apply the TITAN Imidacloprid 200 Insecticide mixture, then water it in well immediately after application.			

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

WITHHOLDING PERIODS:

APPLES: NOT REQUIRED WHEN USED AS DIRECTED.

COTTON: DO NOT HARVEST FOR 13 WEEKS AFTER APPLICATION.

DO NOT GRAZE OR CUT FOR STOCK FOOD.

CUCURBITS: DO NOT HARVEST FOR 1 DAY AFTER APPLICATION.

TOMATOES: DO NOT HARVEST FOR 3 DAYS AFTER APPLICATION.

BRASSICAS, CAPSICUM, EGGPLANT, POTATOES, SWEET POTATOES: DO NOT HARVEST FOR 7 DAYS AFTER APPLICATION.

STONE FRUIT: DO NOT HARVEST FOR 21 DAYS AFTER APPLICATION.

DO NOT graze any treated area, or cut for stock food.

DO NOT feed produce harvested from treated area to animals, including poultry.

GENERAL INSTRUCTIONS

INSECTICIDE RESISTANCE WARNING

For Insecticide resistance management, TITAN Imidacloprid 200 Insecticide is a Group **4A** Insecticide. Some naturally occurring Insect biotypes resistant to TITAN Imidacloprid 200 Insecticide and other Group 4A insecticides may exist through normal genetic variability in any insect population. The resistant individuals can eventually dominate the insect population if TITAN Imidacloprid 200 Insecticide and other Group 4A Insecticides are used repeatedly. The effectiveness of TITAN Imidacloprid 200 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 the failure of TITAN Imidacloprid 200 Insecticide to control resistant insects. TITAN Imidacloprid 200 Insecticide may be subject to specific resistance management strategies. For further information contact your local supplier, TITAN AG or local agricultural department agronomist.

Resistance Management Strategy

Cotton Aphid in cotton: Observe the cotton industry Insecticide Resistance Management Strategy (IRMS).

Insecticide Resistance Management Strategy for Green Peach Aphid in various crops: Contact your local supplier, TITAN AG, or local agriculture department agronomist. Also available at website www.croplife.org.au. Insecticide Resistance Management Strategy for other Aphids, Whitefly and Melon Thrips in various crops: DO NOT apply TITAN Imidacloprid 200 Insecticide (or other group 4A insecticide) in consecutive sprays within and between seasons. Rotate with registered insecticides from other mode of action groups.

Insecticide Resistance Management Strategy for Confined environments such as glasshouses:

Annually: DO NOT apply more than one spray of TITAN Imidacloprid 200 Insecticide (or other group 4A Insecticide) to anyone crop.

Perennials: Rotate with registered insecticides from other groups. Use a maximum of three TITAN Imidacloprid 200 Insecticide (or other group 4A insecticide) sprays in any 12 month period.

MIXING/APPLICATION

Prior to pouring, shake container vigorously, then add the required quantity of TITAN Imidacloprid 200 Insecticide to water in the spray vat while stirring or with agitator in motion.

COMPATIBILITY

TITAN Imidacloprid 200 Insecticide is compatible with Antracol*, Baycor* and Notofol*. DO NOT mix concentrates together but add each to the spray tank separately. As formulations of other manufacturers' products are beyond the control of TITAN AG, all mixtures should be tested prior to mixing commercial quantities. As changes in climatic conditions can alter the sensitivity of plants to mixtures of sprays, TITAN AG cannot be responsible for the behaviour of such mixtures.

Export of Treated Produce

Growers should note that MRLs or import tolerances do not exist in all markets for edible produce treated with TITAN Imidacloprid 200 Insecticide. If you are growing edible products for export please check with TITAN AG Pty Ltd for the latest information on MRLs and import tolerances before using TITAN Imidacloprid 200 Insecticide.

Note on Ornamentals

TITAN Imidacloprid 200 Insecticide has been used on a wide range of ornamental plant species without damage. However, some species and varieties are particularly sensitive to chemical sprays and as this is often related to local conditions it is advisable to treat only a small number of plants first, in order to ascertain their reaction before treating the whole crop.

PROTECTION OF LIVESTOCK

Dangerous to bees. DO NOT spray any plants in flower while bees are foraging. DO NOT graze any treated area including turf, or cut for stock food. DO NOT feed produce or turf clippings from treated area to animals, including poultry.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

DO NOT contaminate streams, rivers or waterways with the chemical or used container. A spray drift minimisation strategy should be employed at all times when aerially applying sprays. The strategy envisaged is exemplified by the cotton industry's Best Management Practices Manual.

STORAGE AND DISPOSAL

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 container 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 for appropriate disposal to an approved waste management facility. If an approved waste management facility is not available, bury the 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 relevant Local, State or Territory government regulations. DO NOT burn empty containers or product.

SAFETY DIRECTIONS

Harmful if swallowed. May irritate eyes and skin. Avoid contact with eyes and skin. When preparing product for use, wear cotton overalls buttoned to the neck and wrist, elbow-length chemical resistant gloves and goggles. Wash hands after use. After each days use, wash gloves and contaminated clothing.

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). A safety data sheet for TITAN Imidacloprid 200 Insecticide is available from TITAN AG Pty Ltd on request. Call Customer Service on (02) 9999 6655 or visit www.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.

* Other trademarks

Additional statements required by Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia: Toxic to aquatic life with long lasting effects. Precautionary: Avoid release to the environment. Collect spillage. Dispose of contents/container in accordance with local/regional/national regulations.

