READ SAFETY DIRECTIONS BEFORE OPENING OR USING



For the control of *Lepidopteran* species of insect pests in certain vegetables and Strawberries as per the Directions for Use. APVMA Approval No.: 92076/134429 Pack Size: 250mL; 0.5-10L, 1L



TITAN AG Pty Ltd | ABN 57 122 081 574 15/16 Princes Street, Newport NSW 2106 Tel (02) 9999 6655 | Fax (02) 9999 0483 titanag.com.au IN A TRANSPORT EMERGENCY
DIAL OOO
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

Restraints: D0 NOT apply if rainfall is expected within 2 hours of application.

DO NOT allow effluent or run-off from protected cropping systems containing this product to enter dams, streams, ponds or other waterways.

SPRAY DRIFT RESTRAINTS

Specific definitions for terms used in this section of the label can be found at www.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 table/s 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 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 of the following table titled 'Buffer zones for boom sprayers') are observed.

Buffer zones for boom sprayers

Application	Mandatory downwind bufferzones		
	Natural aquatic areas		
Up to 150mL/ha	15 metres		

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

• Spray droplets not smaller than a MEDIUM spray droplet size category.

• For maximum release heights above the target canopy of 3m or 25% of wingspan or 25% of rotor diameter whichever is the greatest, minimum distances between the application site and downwind sensitive areas (see 'Buffer zones' section of the following table titled 'Buffer zones for aircraft') are observed.

Buffer zones for aircraft

Type of aircraft	Mandatory downwind bufferzones			
	Natural aquatic areas			
Fixed-wing	200 metres			
Helicopter	200 metres			
		_		
CROP	PEST		RATE	RATE WHP

CRITICAL COMMENTS – ALL CROPS

Regularly scout crops to monitor for eggs and larvae. Target sprays against eggs and newly hatched larvae before they become entrenched. Apply as egg and larvae reach threshold numbers. A maximum of 3 applications are to be applied to any one crop. No more than 2 consecutive sprays per crop, with a minimum spray interval of 7 days (unless stated otherwise). Further treatments should be made with alternative mode of action insecticides. Use enough water to ensure thorough coverage of the crop. Adjust water volumes to crop stage (200-1000L/ha).

For Dilute Spraying: Apply sufficient water to cover the crop to the point of run-off but avoid excessive run-off. The required dilute spray volume will change as the crop grows therefore sprayer set up needs to be adjusted accordingly. Refer to Surfactant/Wetting agent section. Use in accordance with AIRAC Insecticide Resistance Management Strategy guidelines. As part of an Insecticide Resistance Management programme for Cotton Bollworm, it is important to plough crops immediately after harvest.

Brassica vegetables including:	Cabbage-centre Grub (<i>Hellula hydralis</i>),	100mL/ha + 15gai/100L of non-ionic surfactant	7 days	
Broccoli Brussels Sprout Cabbage Cauliflower Brassica leafy vegetables including: Buk Choy Chinese Broccoli (Gai lum/Gai lan/Kai lan), Chinese Cabbage (Pet sai/Wombok /Haksukai) Choy Sum Gai Choy/Am Soy Kai Choy Kale Mibuna Leafy mustard including Indian Mustard and Mustard Spinach (Komatsuma) Pak Choy Tat Soy (for field and protected cropping systems)	Cabbage Cluster Caterpillar (<i>Crocidolomia pavonana</i>), Cabbage Leafminer (<i>Liriomyza brassicae</i>), Cabbage White Butterfly (<i>Pieris rapae</i>), Cluster Caterpillar (<i>Spodoptera litura</i>), Cotton Bollworm (<i>Helicoverpa armigera</i>), Diamondback Moth (<i>Plutella xylostella</i>), Native Budworm (<i>Helicoverpa punctigera</i>), Soybean Looper (<i>Thysanoplusia orichalcea</i>)	OR 10mL/100L (dilute) + 15gai/100L of non-ionic surfactant	3 days	



CROP	PEST	RATE	WHP	CRITICAL COMMENTS
Stalk & Stem vegetables including: Celery Rhubarb	Cotton Bollworm (<i>Helicoverpa armigera</i>), Native Budworm (<i>Helicoverpa punctigera</i>)	100mL/ha + 15gai/100L of non-ionic surfactant OR 10mL/100L (dilute) +	3 days	
Leafy vegetables (excluding lettuce), including: Cress Endive Silverbeet Spinach (for field and protected cropping systems) Lettuce (leaf and closed head varieties) (for field and protected cropping systems)		150mL/ha + 15gai/100L of non-ionic surfactant OR 15mL/100L (dilute) + 15gai/100L of non-ionic surfactant		
Fruiting vegetables (excluding Cucurbits) including: Capsicum Eggplant Peppers Tomato (trellis and field) (for field and protected cropping systems)	Cotton Bollworm (<i>Helicoverpa armigera</i>), Native Budworm (<i>Helicoverpa punctigera</i>), Tomato Leaf Miner (<i>Phthorimaea operculella</i>)	100mL/ha OR 10mL/100L (dilute)	3 days	
	Eggfruit Caterpillar (<i>Sceliodes cordalis</i>)			Ensure spray timing coincides with egg laying/ hatching. The pest hatches from the egg and burrows directly into fruit. Larvae entrenched in the fruit at the time of spraying will not be controlled.
Fruiting vegetables (Cucurbits) including: Cucumbers Melons Pumpkin Squash Zucchini (for field and protected cropping systems)	Cotton Bollworm (<i>Helicoverpa armigera</i>), Native Budworm (<i>Helicoverpa punctigera</i>), Cucumber Moth (<i>Diaphania indica</i>)	100mL/ha + 15gai/100L of non-ionic surfactant OR 10mL/100L (dilute) + 15gai/100L of non-ionic surfactant	1 day	Apply with a minimum spray interval of 5 days.
Legume vegetables including: Green Beans Green Peas Processing Peas Snow Peas Sugar Snap Peas (for field and protected cropping systems)	Cotton Bollworm (<i>Helicoverpa armigera</i>), Native Budworm (<i>Helicoverpa punctigera</i>)	100mL/ha + 15gai/100L of non-ionic surfactant OR 10mL/100L (dilute) + 15gai/100L of non-ionic surfactant	1 day	
Potatoes	Cotton Bollworm (<i>Helicoverpa armigera</i>), Native Budworm (<i>Helicoverpa punctigera</i>), Potato Moth (<i>Phthorimaea operculella</i>)	100mL/ha	Not required	Only target foliar infestations of Potato Moth. Moth larvae in the soil or within stems will not be controlled. Apply with a spray interval of 10-14 days.
Strawberries (for field and protected cropping systems)	Cluster Caterpillar (<i>Spodoptera litura</i>), Cotton Bollworm (<i>Helicoverpa armigera</i>), Native Budworm (<i>Helicoverpa punctigera</i>)	100mL/ha + 15gai/100L of non-ionic surfactant OR 10mL/100L (dilute) + 15gai/100L of non ionic surfactant	1 day	
Sweet Corn	Cotton Bollworm (<i>Helicoverpa armigera</i>)	100mL/ha + 15gai/100L of non-ionic surfactant	7 days	Ensure spray timing coincides with egg laying/hatching. Larvae entrenched in cobs at the time of spraying will not be controlled.

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



WITHHOLDING PERIODS

HARVEST

POTATOES: WITHHOLDING PERIOD NOT REQUIRED WHEN USED AS DIRECTED.

FRUITING VEGETABLES (CUCURBITS INCLUDING CUCUMBERS, MELONS, PUMPKIN, SQUASH, ZUCCHINI), LEGUME VEGETABLES, STRAWBERRIES: DO NOT HARVEST FOR 1 DAY AFTER APPLICATION.

BRASSICA LEAFY VEGETABLES, FRUITING VEGETABLES (EXCLUDING CUCURBITS), LEAFY VEGETABLES (INCLUDING LETTUCE), STALK & STEM **VEGETABLES: DO NOT HARVEST FOR 3 DAYS AFTER APPLICATION.**

BRASSICA VEGETABLES (INCLUDING BROCCOLI, BRUSSELS SPROUT, CABBAGE, CAULIFLOWER), SWEET CORN: DO NOT HARVEST FOR 7 DAYS AFTER APPLICATION.

GRAZING

LEGUME VEGETABLES: DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 1 DAY AFTER APPLICATION. SWEET CORN: DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 7 DAYS AFTER APPLICATION. OTHER CROPS: DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 7 DAYS AFTER APPLICATION.

EXPORT STATEMENT: Import tolerances for produce treated with TITAN Peacekeeper Hort 200SC Insecticide may be pending in some countries. Consult with your exporter or Titan Ag Pty Ltd before applying TITAN Peacekeeper Hort 200SC Insecticide to export crops.

GENERAL INSTRUCTIONS

TITAN Peacekeeper Hort 200SC Insecticide has been specifically designed for use in Integrated Pest Management (IPM) schemes. TITAN Peacekeeper Hort 200SC Insecticide is an anthranilic diamide insecticide in the form of a suspension concentrate. TITAN Peacekeeper Hort 200SC Insecticide is particularly active on Lepidopteran insect pests, primarily as a larvicide. Before application monitor insect populations to determine whether or not there is a need for application of TITAN Peacekeeper Hort 200SC Insecticide based on locally determined economic thresholds. More than one treatment of TITAN Peacekeeper Hort 200SC Insecticide may be required to control a population of pests.

INSECTICIDE RESISTANCE WARNING

For insecticide resistance management TITAN Peacekeeper Hort 200SC Insecticide is a



Group 28 insecticide. Some naturally occurring insect biotypes resistant to TITAN Peacekeeper Hort 200SC Insecticide and other Group 28 insecticides may exist through normal genetic variability in any insect population. The resistant individuals can eventually dominate the insect population if TITAN Peacekeeper Hort 200SC Insecticide and other Group 28 insecticides are used repeatedly. The effectiveness of TITAN Peacekeeper Hort 200SC Insecticide on resistant individuals could be significantly reduced. Since the occurrence of resistant individuals is difficult to detect prior to use, TITAN AG accepts no liability for any losses that may result from the failure of TITAN Peacekeeper Hort 200SC Insecticide to control resistant insects. TITAN Peacekeeper Hort 200SC Insecticide may be subject to specific resistance management strategies. For further information refer to the Insecticide Resistance Management (IRM) section of this label, contact your farm chemical supplier, consultant, local Department of Agriculture or Primary Industries, or TITAN AG Representative.

INSECTICIDE RESISTANCE MANAGEMENT (IRM)

TITAN Peacekeeper Hort 200SC Insecticide contains chlorantraniliprole, a Group 28 Insecticide. Unless directed otherwise in the specific crop/insect sections of the label, the following practices are recommended to prevent or delay the development of insecticide resistance to TITAN Peacekeeper Hort 200SC Insecticide and to Group 28 insecticides:

- Apply TITAN Peacekeeper Hort 200SC Insecticide or other Group 28 insecticides using a "window" approach to avoid exposure of consecutive insect pest generations to the same mode of action. Multiple successive applications of TITAN Peacekeeper Hort 200SC Insecticide or other Group 28 insecticides are acceptable if they are used to treat a single insect generation.
- · Following a "window" of TITAN Peacekeeper Hort 200SC Insecticide or other Group 28 insecticides, rotate to a "window" of applications of effective insecticides with a different mode of action.
- The total exposure period of all "Group 28-active windows" applied throughout the crop cycle (from seedling to harvest) should not exceed 50% of the crop cycle.
- · Incorporate IPM techniques into the overall pest management program.
- Monitor insect populations for loss of field efficacy. For additional information on insect resistance, modes of action and monitoring visit the Insecticide Resistance Action Committee (IRAC) on the web at http://www. iraconline.org

MIXING

Fill spray tank 1/4 to 1/2 full of water. Measure the amount of TITAN Peacekeeper Hort 200SC Insecticide required for the area to be sprayed. Add TITAN Peacekeeper Hort 200SC Insecticide directly to the spray tank with the agitation engaged. Mix thoroughly to disperse the insecticide. Once dispersed, the material must be kept in suspension at all times by continuous agitation. Use mechanical or hydraulic means, DO NOT use air agitation, premix or slurry. If spray solution is left standing, ensure thorough re-agitation of the spray mix until fully resuspended.

DO NOT allow spray mix to sit overnight, as resuspension may be difficult. SURFACTANT/WETTING AGENT

For Brassica vegetables, Brassica leafy vegetables, Stalk & Stem vegetables, Strawberries, Leafy vegetables, Lettuce, Fruiting vegetables (Cucurbits), Legume vegetables, Sweet Corn, use a non-ionic surfactant/wetting agent at 15g active/100L (eg. Agral* 600 @ 25mL/100L).

DO NOT use BS1000* or Activator* as it may cause crop phytotoxicity. DO NOT add a non-ionic surfactant/wetting agent if:

- · Mixing with another product which already contains a surfactant and/or the product label advises not to add a surfactant.
- Mixing with a liquid fertiliser.

APPLICATION

Application equipment should be calibrated to apply at least 60 droplets per cm² of target foliage. Droplet VMD should be of medium spray quality according to ASAE S572 definition for standard nozzles.

Ground Application

Use a boom sprayer fitted with high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets. Use the lower spray pressures recommended for the nozzle. Higher pressure reduces droplet size, DOES NOT improve canopy penetration and may increase drift potential.

WHEN HIGHER FLOW RATES ARE NEEDED. USE A HIGHER CAPACITY **NOZZLE INSTEAD OF INCREASING PRESSURE.**

Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using lowdrift nozzles. When applying TITAN Peacekeeper Hort 200SC Insecticide by ground application, keep the boom low to avoid spray drift.

Aerial Application (by fixed wing aircraft or helicopter)

TITAN Peacekeeper Hort 200SC Insecticide must only be applied with aircraft fitted with accurately calibrated equipment. Apply a minimum total spray volume of 40L/ha with nozzles (eg. Micronaire rotary atomisers, CP nozzles or conventional hydraulic nozzles) set to medium spray quality according to ASAE S572 definition for standard nozzles. A spray drift minimisation strategy should be employed at all times when applying this product.

DO NOT apply TITAN Peacekeeper Hort 200SC Insecticide using Ultra Low Volume (ULV) methods.

COMPATIBILITY

Since formulations may be changed and new ones introduced, it is recommended that users premix a small quantity of the desired tank mix and observe possible adverse changes (settling out, flocculation etc).



Avoid complex tank mixtures of several products or very concentrated spray mixtures.

TITAN Peacekeeper Hort 200SC Insecticide is compatible with Captan*, Dextrolac*, Delan*, Fulasin*, mancozeb, Omite*, Polyram* and Systhane*. The mixing sequence recommended is: water soluble bags, dry flowable or water dispersible granules, wettable powders, water-based suspension concentrates (TITAN Peacekeeper Hort 200SC Insecticide), water soluble concentrates, oil-based suspension concentrates, emulsifiable concentrates, adjuvants and surfactants, soluble fertilisers.

SPRAY EQUIPMENT CLEANOUT

Prior to application, start with clean, well-maintained application equipment. Immediately following application, thoroughly clean all spray equipment to reduce the risk of forming hardened deposits which might become difficult to remove. Drain spray equipment. Thoroughly rinse sprayer and flush hoses, boom, and nozzles with clean water. Clean all other associated application equipment. Take all necessary safety precautions when cleaning equipment.

D0 N0T clean near wells, water sources or desirable vegetation. Dispose of waste rinse water in accordance with local regulations.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

Very toxic to aquatic life. DO NOT contaminate wetlands or watercourses with this product or used containers.

STORAGE AND DISPOSAL

KEEP OUT OF REACH OF CHILDREN.

Store in the closed, original container in a cool, well-ventilated area. D0 NOT store for prolonged periods in direct sunlight. Triple rinse containers before disposal. Add rinsings to spray tank. D0 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 at 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. D0 NOT burn empty containers or product.

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 Peacekeeper Hort 200SC 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: Very toxic to aquatic life with long lasting effects. <u>Precautionary Statements:</u> Avoid release to the environment. Collect spillage. Dispose of contents/ container in accordance with local/regional/national regulations.



