

Product Name: TITAN TEEPEE HERBICIDE
APVMA Approval No: 92505/135747



Label Name:	TITAN TEEPEE HERBICIDE
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Signal Headings:	POISON KEEP OUT OF REACH OF CHILDREN READ SAFETY DIRECTIONS BEFORE OPENING OR USING
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Constituent Statements:	ACTIVE CONSTITUENTS: 200g/L TRICLOPYR present as the triethylamine salt 100g/L PICLORAM present as triisopropanolamine salt
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Mode of Action:	GROUP 4 HERBICIDE
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Statement of Claims:	For Control of Unwanted Timber by Stem Injection or Cut Stump/Brush Cutter Application and Control of Blackberry, Gorse and Harrisia Cactus by Foliage Spray as Specified in the Directions for Use
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Net Contents:	5L - 1000L
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Restraints:	Restraints DO NOT treat trees with poor sap flow. DO NOT apply to plants which may be stressed (not actively growing) due to prolonged periods of extreme cold, moisture stress (water-logged or drought affected) or previous herbicide treatment, as reduced levels of control may result. DO NOT apply close to or on areas containing roots of desirable vegetation, where treated soil may be washed to areas growing, (or to be planted with), desirable plants. DO NOT apply on sites where surface water from heavy rain can be expected to run off to areas containing or to be planted to susceptible crops or plants. DO NOT move soil, which has been sprayed, to areas where desirable plants are to be grown. DO NOT burn treated areas for 9 months after application or mechanically clear treated areas for at least 12 months after application. For High Volume spraying, DO NOT spray if rain is likely within 1 hour or if foliage is wet from rain or dew.
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Directions for Use:	This section contains file attachment.
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Other Limitations:	FOR NATIVE VEGETATION Use of Titan Teepee Herbicide on native vegetation must be done in accordance with STATE and/or LOCAL legislation.
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Withholding Periods:	WITHHOLDING PERIOD: NOT REQUIRED WHEN USED AS DIRECTED.
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Trade Advice:	
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General Instructions:	This section contains file attachment.
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Resistance Warning:	RESISTANT WEEDS WARNING GROUP 4 HERBICIDE Titan Teepee Herbicide is a member of the pyridines and pyridyloxy carboxylates group of herbicides. The product has the disrupters of plant cell growth mode of action. For weed resistance management, the product is a Group 4 herbicide. Some naturally occurring weed biotypes resistant to the product and other Group 4 herbicides may exist through normal genetic variability in any weed population. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds will not be controlled by the product or other Group 4 herbicides. Since the occurrence of resistant weeds is difficult to detect prior to use, TITAN AG Pty Ltd accepts no liability for any losses that may result from the failure of the product to control resistant weeds. Strategies to minimise the risk of herbicide resistance are available. Contact your farm chemical supplier, consultant, local Department of Agriculture, or local TITAN AG Pty Ltd representative.
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Precautions:	
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Protections:	PROTECTION OF CROPS, NATIVES AND OTHER NON-TARGET PLANTS Crops susceptible to Titan Teepee Herbicide include, but are not limited to peas, lupins, lucerne, navy beans, peanuts, soybeans and other legumes, cotton, flowers, fruit, hops, ornamentals, shade trees and <i>Pinus</i> spp., potatoes, safflower, sugarbeet, sunflower, tobacco, tomatoes, vegetables and vines. Titan Teepee Herbicide is damaging to susceptible crops during both growing and dormant periods. Grasses are normally unaffected and establish quickly after treatment. Picloram, one of the active constituents in this product, can remain in the soil for extended periods depending on soil type and application rate, rainfall, temperature, humidity, soil moisture and soil organic matter. DO NOT allow physical spray drift onto watercourses, native vegetation and susceptible crops. DO NOT apply under weather conditions, or from spray equipment, that may cause spray drift onto nearby susceptible plants/crops, cropping lands, pastures, watercourses or native vegetation. DO NOT apply close to, or in areas, containing roots of desirable vegetation, where treated soil may be washed onto areas growing (or areas to be planted with) desirable plants.
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	<p>DO NOT apply on sites where surface water from heavy rain can be expected to run off to areas containing, or to be planted with susceptible crops or plants.</p> <p>DO NOT move soil, which may have been treated to areas where desirable plants are to be grown.</p> <p>PROTECTION OF LIVESTOCK</p> <p>With high volume spraying, poisonous plants may become more palatable after spraying and stock should be kept away from these plants until they have died down.</p> <p>PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT</p> <p>DO NOT contaminate streams, rivers or watercourses with chemical or used containers.</p>
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Storage and Disposal:	<p>STORAGE AND DISPOSAL</p> <p>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 feedstuffs, fertilisers or seed, insecticides, fungicides or other pesticides. This container can be recycled if it is clean, dry, free of visible residues and has the drumMUSTER logo visible.</p> <p>Triple-rinse containers before disposal. Dispose of rinsate by adding it 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.</p> <p>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.</p> <p>DO NOT burn empty containers and product.</p> <p>SPILL AND LEAK MANAGEMENT</p> <p>DO NOT touch or walk through spilled material. Wear a face-shield or goggles, overalls buttoned to the neck and wrist, chemical resistant gloves and footwear. Stop leak when safe to do so. Dam area and prevent entry into waterways and drains.</p> <p>Small spills/leaks: Absorb with material such as sand, soil or sawdust. Collect spilled product and place in sealable container for disposal. Spill residues may be cleaned using water and detergent. Contain and absorb wash water for disposal. Absorb and collect washing and place in the same sealable container for disposal. Dam the area of large spills and report them to TITAN AG Pty Ltd.</p>
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Safety Directions:	<p>SAFETY DIRECTIONS</p> <p>May irritate the eyes. Avoid contact with eyes and skin. DO NOT inhale spray mist. Repeated exposure may cause allergic disorders. When opening the container, preparing the spray and using the product, wear cotton overalls buttoned to the neck and wrist, elbow-length chemical resistant gloves, washable hat and face shield. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves and face shield.</p>
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First Aid Instructions:	<p>FIRST AID INSTRUCTIONS</p> <p>If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 13 11 26, New Zealand 0800 764 766. If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.</p>
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First Aid Warnings:	
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DIRECTIONS FOR USE

Table A: Stem Injection Application

DILUTION RATE – Mix 1 part Titan Teepee Herbicide with 4 parts water.

See **GENERAL INSTRUCTIONS – APPLICATION** section for application method details.

AGRICULTURAL NON-CROP AREAS, COMMERCIAL AND INDUSTRIAL AREAS, FORESTS, PASTURES AND RIGHTS OF WAY				
Weeds Controlled	Weed Growth Size	State	Rate 10L Water	Critical Comments
Acacia (except Qld), Angophora, Casuarina, Corymbia, Eucalyptus (except Yellow Box), Lophostemon and Melaleuca species, Camphor Laurel	Single stems less than 25cm diameter at base (Waist height application)	ALL STATES	1mL of diluted chemical per cut @ 10 to 13cm centres	NOTE: Control of Acacia, Casuarina and Lophostemon species may be variable. Use ground level application to reduce variability.
	Single stems less than 25cm diameter at base (Ground level application)		1mL of diluted chemical per cut @ 12 to 15cm centres	DO NOT exceed the spacings shown from the centre of one cut to the centre of the next cut. Inject each stem of a multi-stem tree where possible. Injection at or near ground level is essential in the Traprock area of south-eastern Queensland and is preferred for optimum results in poplar box areas. In areas where experience has shown that results are variable because species are harder to kill or due to marginal soil and/or climate factors, higher doses may improve control. Contact TITAN AG Pty Ltd for more detail.
	Multiple stems or more than 25cm diameter at base (Waist height application)		2mL of diluted chemical per cut @ 10 to 13cm centres	
	Multiple stems or more than 25cm diameter at base (Ground level application)		2mL of diluted chemical per cut @ 12 to 15cm centres	

Table B: Cut Stump/Brushcutter Application

See **GENERAL INSTRUCTIONS – APPLICATION** section for application method details.

AGRICULTURAL NON-CROP AREAS, COMMERCIAL AND INDUSTRIAL AREAS, FORESTS, PASTURES AND RIGHTS OF WAY				
Weeds Controlled	Weed Growth Size	State	Rate/ 10L Water	Critical Comments
Acacia (except Qld), Angophora, Casuarina, Corymbia, Eucalyptus (except Yellow Box) and Lophostemon species	Cut stem as close to the ground as possible, leaving stump no higher than 10cm	ALL STATES	500mL	NOTE: Control of Acacia, Casuarina and Lophostemon species may be variable. If cut surface is oily, add wetting agent (BS1000) for penetration.

Table C: High Volume Spraying

See GENERAL INSTRUCTIONS – APPLICATION section for application method details.

AGRICULTURAL NON-CROP AREAS, COMMERCIAL AND INDUSTRIAL AREAS, FORESTS, PASTURES AND RIGHTS OF WAY				
Weeds Controlled	Weed Growth Size	State	Rate 100L Water	Critical Comments
Blackberry	Late spring to autumn	ALL STATES except NT	500mL	Always add an adjuvant (see Compatibility section for details). Where herbicides other than Group 4 Herbicides have been used, allow two seasons regrowth to occur before respraying with Titan Teepee Herbicide.
Gorse	September to March when actively growing	NSW, VIC, SA, TAS only	375mL	Treat any regrowth in the following season. Use a minimum of 3000-4000L of spray mixture/ha for dense gorse.
Harrisia Cactus		QLD only	2.5L	Treat all stems thoroughly.

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

GENERAL INSTRUCTIONS

COMPATIBILITY

Titan Teepee Herbicide is compatible with the following adjuvants: Hasten @ 500mL/100L water, Supercharge @ 500mL/100L water and Update Spraying oil @ 500mL/100L water.

MIXING

Mix only with water. It will not mix with oil or diesel fuel. Only mix sufficient solution for immediate daily use and avoid storing.

A Stem Injection Application

Mix one part Titan Teepee Herbicide with 4 parts clean water. Agitate well before commencing work. After use clean equipment thoroughly and rinse several times with water.

B High Volume Application

Half fill the spray unit with water and add the required amount of Titan Teepee Herbicide. Add the remaining water with the agitator running. If required, then add spray oils or wetters (surfactants). Maintain mechanical or by-pass agitation in the spray tank during spraying.

APPLICATION

A Stem Injection Application

Waist Height Application

- To make an injection pocket at waist height, use a $\frac{3}{4}$ length axe with a blade width of 5 to 7cm. The cut for the injection must be through the bark and deep enough to place all the chemical in contact with the sap wood.
- The chemical must be applied immediately after the dose pocket is made. Apply chemical with a Phillips 5mL vaccinator fitted with a tree injector kit which can be accurately calibrated. Set vaccinator to deliver 1mL of herbicide mix.
- When treating regrowth less than the width of the axe, ensure chemical does not run out of the sides of the cut, as reduced control will result. This can be overcome by using the corner of the axe to make the pocket in the stem or treating by cut stump application.

Ground Level Application

- To make an injection pocket at ground level, use a narrow blade axe, as described for waist height application, or a CMB Engineering Tree Injector designed for this application method.
- When using the Tree Injector, make sure that the pump handle is held in whilst striking the tree, otherwise unnecessary strain will be placed on the pump and valve, and the chemical will be ejected onto the bark. Use injector with groove in blade uppermost. Strike tree, cutting through bark to sapwood. Lower the upper end of the injector to open the cut, then move pump handle out and in to inject the dose. A smooth action will give better results than a quick "snapping" action.
- The chemical must be applied immediately after the dose pocket is made.
- Results similar to high volume spraying can be obtained using Micron Herbi® or similar equipment. Select a nozzle to give a flow rate of 2mL/sec and sweeping action of approximately 1m/sec to ensure a droplet density of 20/cm². Use a marking agent, as recommended by the equipment manufacturers, to check spray coverage. Also, consult directions provided by CDA unit.

B Cut Stump/ Brushcutter Application

- Stems should be cut less than 10cm above the ground. Remove and treat the surface of any suckers present below the cut surface and ground level.
- Immediately apply Titan Teepee Herbicide/water mixture liberally to the freshly cut stump by spraying the cut surface and sides of the stem.
- If cut surface is oil, add a 100% non-ionic surfactant (BS1000) at 100mL/100L water to improve penetration.
- When using a brushcutter with a herbicide attachment, read all safety and operating instructions in the brushcutter manual prior to use of the equipment.

C High Volume Spraying

Weeds need to be actively growing for herbicides to have optimum effect. In areas that have been bulldozed, slashed, burnt, ploughed or previously treated with chemical, wait until all regrowth has reached approximately 1 metre in situations before treating.

- Thorough coverage of foliage to the point of run-off is essential, however, avoid excess spraying which is wasteful of chemical.

Hand Gun (blackberry and gorse)

- Apply the recommended mix to give full coverage of leaves and stems through a No. 6 to 8 tip at 700 to 1500kPa.
- A spray volume of 3000 to 4000L per infested hectare of 1 to 2 metre high gorse and blackberry (30 to 40L/100m²) should be used.

Knapsack (*Harrisia Cactus*)

- Apply the recommended spray mix to give full coverage of all stems from the crown. Treatment should start from the end of each stem to the centre of the plant, with a fine dose to the plant crown. Complete coverage of every stem is required for adequate control.

CLEANING HIGH VOLUME SPRAY EQUIPMENT

Rinsing

After using Titan Teepee Herbicide, empty spray equipment completely and drain the whole system. Thoroughly wash inside the unit using a pressure hose, if necessary. Drain the spray unit, and clean any filters in the tank, pump, lines, hoses and nozzles. After cleaning the spray unit as above, quarter fill with clean water and circulate through the pump, lines, hoses and nozzles. Drain and repeat the rinsing procedure twice.

Decontamination

Before spraying cotton and other sensitive crops with equipment that has been used to apply Titan Teepee Herbicide, see PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS section.

Wash the tank and rinse the system as above. Then quarter fill the tank and add an alkali detergent (e.g. liquid Surf®, Omo®, Omomatic®, Drive® at 500mL/100L of water or the powder equivalent at 500g/100L of water) and circulate throughout the system for at least 15 minutes. If using a concentrated laundry detergent, use 250g (or mL)/100L water. Do not use chlorine-based cleaners. Drain the whole system. Remove filters and nozzles and clean them separately. Finally flush the system with clean water and allow to drain.

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