

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

QA

Tebuthiuron 200 GR

HERBICIDE

ACTIVE CONSTITUENT: 200 g/kg TEBUTHIURON

GROUP **5** HERBICIDE

For control of brigalow regrowth, tea tree regrowth, *Mimosa pigra* and certain problem woody weeds on grazing lands by hand, aerial and ground application as specified in the Directions for Use table.

APVMA Approval No.: 91775/149837

GR

Formulation Type
Granules

**BE PROUDLY
AUSTRALIAN**

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Table 1: Hand Application

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

Situation	Weeds Controlled	State	Rate g/m ²	Critical Comments
Brigalow regrowth and associated problem woody weeds on grazing land	Belah	Qld only	1.5	Estimate the area within 30 cm beyond the drip zone of each target weed or group of weeds and calculate the amount of QA Tebuthiuron 200 GR Herbicide to cover area to be treated. Distribute the required dose uniformly within this area. Use the higher rate for heavy density regrowth and heavy clay soils. (1) Some suppression of these species is provided by the rates given. (2) DO NOT use within 30 m of trees.
	Brigalow, Currant Bush	NSW & Qld only	1 to 1.5	
	Dawson Gum	Qld only	1	
	False Sandalwood (1)	NSW & Qld only	2	
	Holly Bush		1.5	
	Limebush		1	
	Poplar Box	Qld only	NSW, Qld & NT only	
	Whitewood	1		
Yellowwood	1			
Tea tree regrowth and associated woody weeds on grazing land	Black Tea Tree	Qld, WA & NT only	1.5	DO NOT apply to single continuous area greater than 0.5 ha in size.
	Broadleaf Tea Tree		1	
	Cocky Apple (1)		2	
	Paperbark Tea Tree, Poplar Gum		1.5	
	Swamp Box		2	
Other woody weeds on grazing land	African Boxthorn	NSW, Qld & NT only	2	
	Blue Heliotrope (2)	NSW only	0.5	
	Broadleaf Ironbark, Brown Box	Qld only	1.5	
	Coolibah	Qld & NT only	1	
	Gidgee	Qld only	0.5 to 1	
	Gum-topped Box		1.5	
	Groundsel Bush	NSW & Qld only	1	
	Parkinsonia	Qld & NT only	1 to 1.5	
	Prickly Acacia, Rubbervine	Qld & NT only	1.5	
	Wild Rosemary	NSW & Qld only		
Giant sensitive plant on grazing land and other grasslands	<i>Mimosa pigra</i>	NT only	1	Apply after the onset of storms (to moisten soil, close soil cracks (where applicable) and freshen growth of giant sensitive tree) and before wet season surface flooding. Repeat application may be required in year two for long term control. Some grass suppression may occur.

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

DIRECTIONS FOR USE: Aerial and Ground Application

See **GENERAL INSTRUCTIONS - APPLICATION METHODS** Section for application method details.

Situation	Weeds Controlled	State	Rate kg/ha	Critical Comments	
Brigalow regrowth and associated problem woody weeds on grazing land	Belah, Brigalow, Currant Bush, Dawson Gum, Limebush, Poplar Box, Scrub Boonaree, Whitewood, Wild Rosemary, Yellowwood	Qld only	7.5 to 15	For brigalow areas, a guide to the recommended rates is 7.5 kg for lighter duplex soils, 10 kg for medium density regrowth on light clay soils, 12.5 kg and above for heavy density regrowth on heavy acidic clays.	
	False Sandalwood*		10 to 15	On False Sandalwood partial control and suppression only will be obtained at the specified rate.	
Tea tree regrowth and associated woody weeds on grazing land	Broadleaf Tea Tree, Paperbark Tea Tree		5 to 7.5	10	For tea tree use the highest rate if the area is prone to waterlogging. Excessive rainfall or waterlogging may reduce control. * For Cocky Apple partial control and suppression only will be given at the specified rate.
	Cocky Apple* Swamp Box				
Other woody weeds on grazing land	Gidgee	Qld & NT only	5 to 10	Use the high rate on dense growth or heavy clay soils.	
	Parkinsonia		10 to 15		
	Prickly Acacia				
	Polar Gum		7.5 to 10		
	Rubbervine		7.5 to 15		
Eucalypt woodland management using Property Management Planning Principles	Poplar Box	Qld only	7.5 to 10	Use the higher rate on dense growth or heavier clay soils. To be used in accordance with any "Tree Clearing Guidelines" and 20% intact retention of species.	
Giant sensitive plant on grazing land and other grasslands	<i>Mimosa pigra</i>	NT only	5 to 10	Apply after the onset of storms (to moisten soil, close soil cracks (where applicable) and freshen growth of giant sensitive tree) and before wet season surface flooding. Repeat application may be required in year two for long term control. Some grass suppression may occur.	

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

FOR NATIVE VEGETATION

Use of QATebuthiuron 200 GR Herbicide on native vegetation must be done in accordance with STATE and/or LOCAL legislation.

WITHHOLDING PERIOD: NOT REQUIRED WHEN USED AS DIRECTED.

GENERAL INSTRUCTIONS

Review the restraints before reading these instructions.

- QA Tebuthiuron 200 GR Herbicide may be applied at any time of the year. Treatments become effective after sufficient rainfall has occurred to move the chemical into the root zone where it is absorbed by woody plants. Applications just prior to seasonal rainfall give the most rapid response.
- Herbicidal activity will continue for several seasons after application. During this time woody plants may go through repeated defoliations and re-growths until death occurs. A single application is normally effective for several years.
- Forage grass production usually increases as woody weed competition is reduced. Increased grass production is also dependent on adequate rainfall and an acceptable grazing management program. It is important to allow grasses to seed and seedlings to become established after treatment before grazing pressure is increased. Areas treated with QA Tebuthiuron 200 GR Herbicide may be over seeded with suitable pasture species. Consult your agricultural specialist for details on suitable seeding rates, timing and fertilizer application program.
- The residual action of QA Tebuthiuron 200 GR Herbicide may be impaired if fire occurs before clay pellets are dissolved and the chemical has moved into the root zone.

APPLICATION METHODS

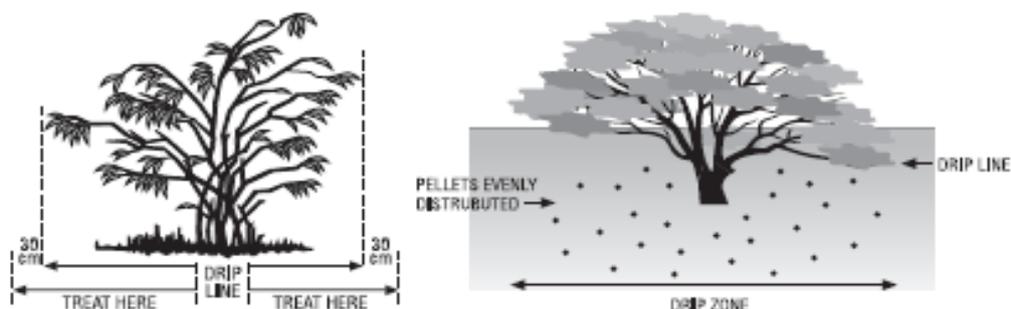
Hand Application

- Gloves must be used during hand application.
- Apply QA Tebuthiuron 200 GR Herbicide by uniformly distributing by hand using the QA Tebuthiuron 200 GR Herbicide hand dispenser over the desired area after weighing out the recommended quantity of pellets or the QA Tebuthiuron 200 GR Herbicide volumetric measure cup. As an example, a measured weight or measured volume of 20 grams will treat 10 to 20 m² at the rate of 1 to 2 g/m².
- When applying pellets, distribute them under the tree or regrowth canopy from the root crown or stems to 30 cm beyond the drip zone of the plants you want to control.
- The time required to complete plant death depends on soil type, amount of rainfall, root depth, plant species, plant density and rate of QA Tebuthiuron 200 GR Herbicide used.
- Some species may go through several defoliations from 6 months to 2 years before dying.
- Timber and regrowth control with QA Tebuthiuron 200 GR Herbicide pellets may be variable when used on soils with high clay content, high organic matter or when treating deep rooted or more tolerant species.

Treating Individual Trees by Hand

- Estimate the area within 30 cm beyond the drip zone, i.e. the area under the plant canopy. It is essential that this area is treated as evenly as possible with pellets being spread from the tree trunk to slightly beyond the drip line formed by the branches.
- **Do not throw all the pellets at the base of the tree trunk.** This will waste material and could result in poor control.

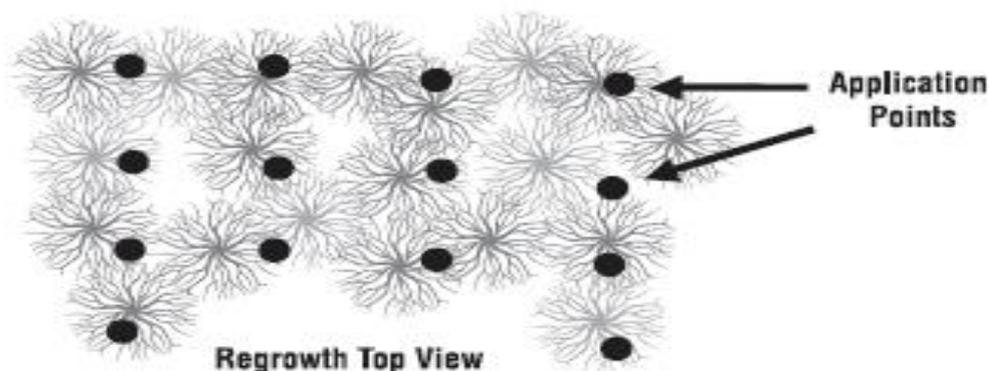
Example



Treatment of Clumps of Trees or Patches of Regrowth by Hand

- QA Tebuthiuron 200 GR Herbicide pellets are particularly effective in treating areas of regrowth.
- Estimate the area within 30 cm beyond the drip zone and apply the QA Tebuthiuron 200 GR Herbicide pellets on a grid pattern to uniformly cover the area.
- Pellets should be applied over the top of regrowth if at all possible in an attempt to maintain a good distribution pattern.

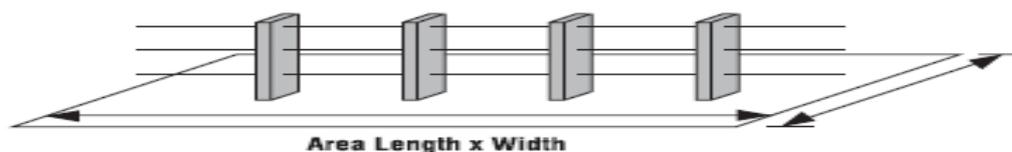
Example



Treating Fence Lines by Hand

- Estimate the area to be treated, along the fence line and then apply QA Tebuthiuron 200 GR Herbicide pellets on both sides of the fence line as evenly as possible within the area extending 30 cm out beyond drip zone.

Example



Aerial and Ground Application

- Apply QA Tebuthiuron 200 GR Herbicide by uniformly distributing with an approved aircraft or ground driven air equipment, after calibration to achieve the desired application rate.
- QA Tebuthiuron 200 GR Herbicide may be applied at any time of year. Treatments become effective after sufficient rainfall has occurred to move the chemical into the root zone where it is absorbed by woody plants. Applications just prior to seasonal rainfall give the most rapid response.
- Herbicidal activity will continue for several seasons after application. During this time woody plants may go through repeated defoliations and re-growth until death occurs. A single application is normally effective for several years.
- Forage grass production usually increases as woody weed competition is reduced. Increased grass production is also dependent on adequate rainfall and an acceptable grazing management program.
- It is important to allow grasses to seed and seedlings to become established after treatment before grazing pressure is increased. Areas treated with QA Tebuthiuron 200 GR Herbicide may be over seeded with suitable pasture species. Consult your agricultural specialist for details of suitable seeding rates, timing and fertilizer application program.
- The residual action of QA Tebuthiuron 200 GR Herbicide may be impaired if fire occurs before clay pellets are dissolved and the chemical has moved into the root zone.

1. Aerial Application

Aerial application of QA Tebuthiuron 200 GR Herbicide can be carried out by fixed wing aircraft or helicopter fitted with specially designed application apparatus. Use a Positive Metering Device (Meterate) for fixed wing aircraft and Isolair or similar precision equipment for helicopters.

A minimum flying height of 20 metres above the canopy of the target plants must be maintained. The swath width is dependent on the type of spreader used.

The target areas must be correctly marked out and flown with the aid of GPS (Global Positioning System) or markers clearly visible to the operator or a method of marking approved by QA Pty Ltd.

2. Ground Application

Ground applications of QA Tebuthiuron 200 GR Herbicide can be carried out in suitable areas by accredited operators.

Cleaning Application Equipment

Thoroughly clean all traces of QA Tebuthiuron 200 GR Herbicide from vessels holding pellets e.g. bucket and gloves after use.

Residues cleaned from this application equipment should not be emptied on areas where they will contact roots of desirable trees, shrubs or plants.

GROUP	5	HERBICIDE
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RESISTANT WEEDS WARNING

QA Tebuthiuron 200 GR Herbicide is a member of the Ureas group of herbicides. The product has inhibitors of photosynthesis at photosystem II mode of action. For weed resistance management, the product is a Group 5 herbicide. Some naturally occurring weed biotypes resistant to the product and other Group 5 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 this product or other Group 5 herbicides.

Since the occurrence of resistant weeds is difficult to detect prior to use, Quantum Agrosiences Holdings Pty Ltd accepts no liability for any losses that may result from the failure of this 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 Quantum Agrosiences Holdings representative.

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

DO NOT allow any roots of desirable plants, trees or ornamentals to contact QA Tebuthiuron 200 GR Herbicide.

QA Tebuthiuron 200 GR Herbicide may cause temporary herbicidal symptoms to appear on perennial grasses. Higher rates of application of QA Tebuthiuron 200 GR Herbicide (2 g/m²) may kill grasses, particularly native annuals. This effect can be minimised by application when grasses are dormant.

QA Tebuthiuron 200 GR Herbicide may seriously injure desirable forage plants such as pasture legumes and other broadleaf plants. These species may regenerate in subsequent seasons.

PROTECTION OF LIVESTOCK

Poisonous plants may become more palatable after application of granules and stock should be kept away from these plants until they have died down.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

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

STORAGE AND DISPOSAL

Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight. DO NOT store near food, feedstuffs, fertilisers or seed. DO NOT dispose of granules on-site.

Single-rinse or shake remainder into the application equipment until the bag is empty. DO NOT dispose of undiluted chemicals on-site. Puncture and deliver empty packaging 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

Sweep up material for disposal and contain in a refuse vessel for disposal (see Storage and Disposal Section).

SAFETY DIRECTIONS

Harmful if swallowed. Will irritate the eyes. Repeated exposure may cause allergic disorders. Avoid contact with eyes and skin. When opening the container and preparing the product and using the prepared product, wear cotton overalls buttoned to the neck and wrist and a washable hat and elbow-length chemical resistant 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 13 11 26.

SAFETY DATA SHEET

Additional information is listed in the safety data sheet (SDS) which is available from the supplier.

CONDITION OF SALE

Quantum Agrosiences Holdings 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 Quantum Agrosiences Holdings Pty Ltd's skill or judgement in purchasing or using the same and every person dealing with this product does so at his own risk absolutely. No representative of Quantum Agrosiences Holdings Pty Ltd has any authority to add to or alter these conditions.