



Australian Pesticides &  
Veterinary Medicines Authority

Product Name: Quantum TriPic 400 EC Herbicide

APVMA Approval No: 95199/148693

Label Name:	Quantum TriPic 400 EC 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: 300 g/L TRICLOPYR present as BUTOXYETHYL ESTER 100 g/L PICLORAM present as HEXYLOXYPROPYLAMINE SALT
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Mode of Action:	GROUP 4 HERBICIDE
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Statement of Claims:	For control of a range of environmental and noxious woody and herbaceous weeds as specified in the Directions for Use Table
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Net Contents:	1 L - 1000 L
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Restraints:	<p><b>RESTRAINTS:</b></p> <p>DO NOT apply to weeds which may be stressed (not actively growing) due to prolonged periods of extreme cold, moisture stress (water-logged or drought affected), poor nutrition, presence of disease, damage or previous herbicide treatment, as reduced levels of control may result.</p> <p>DO NOT spray if rain is likely within one hour or if foliage is wet from rain or dew.</p> <p>DO NOT burn off, cut or clear blackberry or other woody weeds for at least six months after spraying.</p> <p>DO NOT apply by aerial application in wind in excess of 15 km/hr and air temperatures above 35°C.</p> <p>In areas prone to flooding, treatment should commence after any annual flooding as such areas flooded within 9 months following application may have reduced results.</p> <p><b>SPRAY DRIFT RESTRAINTS</b></p> <p>Specific definitions for terms used in this section of the label can be found at <a href="http://apvma.gov.au/spraydrift">apvma.gov.au/spraydrift</a>.</p> <p>DO NOT allow bystanders to come into contact with the spray cloud.</p>
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	<p>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. Wherever possible, correctly use application equipment designed to reduce spray drift and apply when the wind direction is away from these sensitive areas.</p> <p>DO NOT apply unless the wind speed is between 3 and 20 kilometres per hour at the application site during the time of application.</p> <p>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 1 to 2 hours before sunset and persist until 1 to 2 hours after sunrise.</p>
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Directions for Use:	This section contains file attachment.
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Other Limitations:	<p>IN TASMANIA FOR BLACKBERRY: DO NOT treat bushes carrying mature or near mature fruit.</p> <p>FOR NATIVE VEGETATION: Use of Quantum TriPic 400 EC Herbicide on native vegetation must be done in accordance with STATE and/or LOCAL legislation.</p>
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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:	<p><b>RESISTANT WEEDS WARNING</b></p> <p><b>GROUP 4 HERBICIDE</b></p> <p>Quantum TriPic 400 EC Herbicide is a member of the pyridines 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.</p> <p>Some naturally occurring weed biotypes resistant to the product and other disrupters of plant cell growth herbicides may exist though 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.</p> <p>Since the occurrence of resistant weeds is difficult to detect prior to use, Quantum AgroSciences Holdings 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 Quantum AgroSciences Holdings Pty Ltd representative.</p>
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Precautions:	<p><b>PRECAUTIONS</b></p> <p>Re-Entry</p>
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	<p>Do not allow entry into treated areas until the spray has dried, unless wearing cotton overalls buttoned to the neck and wrist (or equivalent clothing) and chemical resistant gloves. Clothing must be laundered after each day's use.</p>
<p>Protections:</p>	<p><b>PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS</b>  Crops susceptible to Quantum TriPic 400 EC 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 Pinus spp., potatoes, safflower, sugar beet, sunflowers, tobacco, tomatoes, vegetables and vines.  Quantum TriPic 400 EC 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 apply under weather conditions, or from spraying equipment, that may cause spray drift onto nearby susceptible plants/crops, cropping lands, pastures, waterways or native vegetation.  DO NOT allow physical spray drift onto waterways, native vegetation and susceptible crops.  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.  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.  DO NOT move soil, which may have been treated to areas where desirable plants are to be grown.</p> <p><b>PROTECTION OF LIVESTOCK</b>  Poisonous plants may become more palatable after spraying and stock should be kept away from these plants until they have died down. Many plants remain poisonous after death, and stock should not be allowed access, as there is a likelihood that they may graze the dead material.</p> <p><b>PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT</b>  DO NOT contaminate streams, rivers or watercourses with chemical or used containers.</p>
<p>Storage and Disposal:</p>	<p><b>STORAGE AND DISPOSAL</b>  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, fertilizers or seed. Triple-rinse containers before disposal. Add rinsings to 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 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.</p> <p><b>SMALL SPILL MANAGEMENT</b>  Wear protective equipment (See SAFETY DIRECTIONS). Apply absorbent material such as earth, sand, clay granules or cat litter to the spill. Sweep up material for disposal when absorption is completed 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 as above, the wash liquid for disposal.</p>
<p>Safety Directions:</p>	<p><b>SAFETY DIRECTIONS</b></p>

	Harmful if swallowed. Will irritate the eyes and skin. Avoid contact with eyes and skin. When preparing the spray, wear cotton overalls buttoned to the neck and wrists, a washable hat, elbow-length chemical resistant gloves and face shield or goggles. If the product is in eyes, wash it out immediately with water. Wash hands after use. After each day's use, wash gloves, face shield or goggles and contaminated clothing.
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First Aid Instructions:	FIRST AID If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia:13 11 26.
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First Aid Warnings:	
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## DIRECTIONS FOR USE

### 1. WOODY WEED SITUATIONS

**Table A: 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 STAGE	STATE	RATE/100 L WATER	CRITICAL COMMENTS
African boxthorn	Less than 2 m tall	All States	500 mL	Apply when bushes have good leaf cover, growth and <b>no leaf fall</b> .
<i>Angophora</i> spp.	1 to 3 m tall		350 mL	
Australian blackthorn	Less than 2 m tall		500 mL	Apply from late spring to early autumn.
<i>Banksia</i> spp.	1 to 3 m tall		350 mL	
Biddy Bush (Chinese shrub) (Sifton bush)	Autumn when actively growing	ACT and NSW only	500 mL	Add a 100% concentrate non-ionic surfactant at 125 mL/100 L of water for best results.
Blackberry in association with: Docks, Ragwort, Smartweed, Thistles	Late spring to autumn	All States except NT	350 mL OR 500 mL	<b>Use the higher rate on plants that have been damaged by grazing stock or insects and on known difficult to kill blackberry.</b>  Where herbicides other than Group I Herbicides have been used, allow two seasons regrowth to occur before respraying with Quantum TriPic 400 EC Herbicide.
Blue heliotrope	Flowering	NSW and Qld only	500 mL	Apply in a minimum spray volume of 1250 L/ha.
Brooms: Cape, English, Flax leaf, Montpellier	Spring to mid-summer prior to pod formation	All States except NT	250 mL	Apply as a thorough foliage spray.
	Autumn to winter		350 mL	
Camphor laurel	Less than 2m tall	All States	350 mL	
	Above 2 m tall		500 mL	

<i>Casuarina</i> spp.	1 to 3 m tall		350 mL	Add a 100% concentrate non-ionic surfactant at 100 mL/100 L of water for best results.
Chinese apple	Less than 2 m tall	Qld and WA only	350 mL	
Cockspur thorn	Spring to autumn	ACT, NSW and Qld only	350 mL	Apply as a thorough foliage spray.
Common sensitive plant	Any time when actively growing	NT, Qld and WA only	200 mL	To avoid leaves closing during application, spray plants while moving forward. Add a 100% concentrate non-ionic surfactant at 100 mL/100 L of water for best results.

AGRICULTURAL NON-CROP AREAS, COMMERCIAL AND INDUSTRIAL AREAS, FORESTS, PASTURES AND RIGHTS-OF-WAY (continued)				
WEEDS CONTROLLED	WEED GROWTH STAGE	STATE	RATE/100 L WATER	CRITICAL COMMENTS
Crofton weed	Spring to autumn	ACT, NSW and Qld only	350 mL	Apply as a thorough foliage spray.
Eastern cotton bush ( <i>Maireana microphylla</i> )	Spring to autumn	NSW and Qld only	500 mL	Add Uptake® Spraying Oil at 500 mL/100 L of water. Some bushes may require a follow-up spray to control regrowth.
<i>Eucalyptus</i> spp.	Seedling and regrowth from small lignotubers, 1 to 3 m tall	All States	350 mL OR 500 mL	<b>Apply the high rate where difficult to control species of <i>Eucalyptus</i> regrowth is present.</b> Addition of an adjuvant may improve results – contact Quantum Agrosiences Holdings Pty Ltd. for details.
Galenia	Fresh growth in spring to summer	NSW only	500 mL	Use 2000 L of spray mixture/ha.
Giant bramble	Spring to autumn	NT, Qld and WA only		Penetration of thick clumps may be difficult, and respraying may be necessary. Add a 100% concentrate non-ionic surfactant at 100 mL/100 L of water for best results.
Gorse	1 to 1.5 m tall	All States except NT	250 mL	Spring and Summer treatment only. Add a 100% concentrate non-ionic surfactant at 100 mL/100 L of water for best results.
	Over 1.5 m tall or autumn treatment		350 mL	Add a 100% concentrate non-ionic surfactant at 100 mL/100 L of water for best results.
	Winter treatment		500 mL	Brownout may not be complete until summer. Add a 100% concentrate non-ionic surfactant at 100 mL/100 L of water for best results.
Groundsel bush ( <i>Baccharis halimifolia</i> )	1 to 1.5 m tall in spring and summer	All States except NT	250 mL	Apply as thorough foliar spray.
	Over 1.5 m tall or autumn treatment		350 mL	

Green cestrum	Late spring to early autumn	ACT, NSW and Qld only	500 mL	One application may give satisfactory control. Any subsequent regrowth and seedlings must be resprayed at approximately 1 metre high.
Hawthorn	Less than 2 m tall	All States		Apply from late spring to early autumn.
Horehound	Pre-flowering	NSW and Qld only	350 mL	Apply as a thorough foliar spray.
Japanese sunflower				
Lantana ( <i>Lantana camera</i> ) ( <i>Lantana montevidensis</i> )	Up to 1 m tall in summer to autumn	All States		Add one of the following adjuvants, when using 350 mL rate: Uptake® Spraying Oil @ 0.5% v/v. Pulse® @ 0.1% v/v.
	1 to 2 m tall in summer to autumn		500 or 750 mL	Thoroughly wet foliage, stems and soil around the base of the plants. Use higher rate on known harder to kill varieties.
Lion tail ( <i>Leonatis nepetifolia</i> )	Pre-flowering	Qld only	200 mL	Apply as a thorough foliar spray. Add a 100% concentrate non-ionic surfactant at 100 mL/100 L of water for best results.
Limebush	Any time of year with good leaf cover and soil moisture	NT and Qld only	350 mL	Penetration of thick clumps may be difficult and respraying may be required. Addition of an adjuvant may improve results – contact Quantum Agrosiences Holdings Pty Ltd. for details.

AGRICULTURAL NON-CROP AREAS, COMMERCIAL AND INDUSTRIAL AREAS, FORESTS, PASTURES AND RIGHTS-OF-WAY (continued)				
WEEDS CONTROLLED	WEED GROWTH STAGE	STATE	RATE/100 L Water	CRITICAL COMMENTS
Manuka	At flowering	Vic only	500 mL	For optimum results, add a registered adjuvant containing 1020 g/L Polyether modified polysiloxane at 200 mL/100 L of spray. Thoroughly wet foliage, stems and soil around the base of the plants.
Mesquite ( <i>Prosopis</i> spp.)	Seedling, full leaf and flowering before podding	NSW, NT, Qld and WA only	350 mL	<b>DO NOT</b> spray plants bearing pods. Add a 100% concentrate non-ionic surfactant at 100 mL/100 L of water for best results.
<i>Prosopis velutina</i>		Qld only	670 mL	

Mistflower	Spring to autumn	ACT, NSW and Qld only		Apply as a thorough foliar spray.
Mother-of-millions	Flowering	NSW and Qld only	500 mL	Add a 100% concentrate non-ionic surfactant at 100 mL/100 L of water for best results.
Paddy's lucerne	Active growth	NSW only		Plants that have been continually slashed or grazed over many seasons may be difficult to control and regrowth may occur.
Parkinsonia	Under 2 m tall	NT, Qld and WA only	350 mL	Add Uptake® Spraying Oil at 500 mL/100 L water. Avoid spraying under dry conditions when plants are stressed or bearing pods. Thoroughly wet foliage.
Prickly Pear (common) Smooth tree pear	Active phyllode growth	All States	500 mL	Apply as a thorough foliage spray. Regrowth may occur, so a follow-up application may be necessary.
Rubber vine (Not infected with rust)	Up to 1.5 m tall at flowering	NT, Qld and WA only	350 mL	Spray all leaves and stems just to the point of runoff and thoroughly spray the base of the plant. With larger, more dense stands, regrowth may occur. Subsequent control of any regrowth should be done by basal bark spraying.
	Dense stands greater than 1.5 m tall at flowering		500 mL	
Siam weed	Active growth	Qld and WA only	350 mL	Add a 100% concentrate non-ionic surfactant at 100 mL/100 L of water for best results.
Sicklepod	Up to flowering	NT, Qld and WA only	200 mL	<b>DO NOT</b> apply to podding plants. Add a 100% concentrate non-ionic surfactant at 100 mL/100 L of water for best results.
St John's wort	From flowering to early seed set	All States	500 mL	Late spring to early summer.
Sweet briar	Up to 1.5 m tall	All States except NT	350 mL	Add Metsulfuron 600 WG Herbicide at 10 g/100 L water to obtain more reliable results with the lower rate of Quantum TriPic 400 EC Herbicide.
			500 mL	Full leaf to ripe fruit prior to leaf fall. Thorough wetting including the crown is recommended.
Tobacco weed	Actively growing plants	NT, Qld and WA only	300 mL	Add a 100% concentrate non-ionic surfactant at 100 mL/100 L of water for best results.

Wattle ( <i>Acacia</i> spp.) (except corkwood wattle)	1 to 3 m tall	All States	350 mL	
Wild rosemary ( <i>Cassinia laevis</i> )	Active growth, 0.5 to 1 m tall	Qld only	350 to 500 mL	Use lower rate on seedlings 0.5 m tall. Apply as a thorough foliar spray.
Wild tobacco tree	Spring to autumn up to 2 m tall	ACT, NSW and Qld only	350 mL	

**Table B: Aerial Application**

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

AGRICULTURAL NON-CROP AREAS, COMMERCIAL AND INDUSTRIAL AREAS, PASTURES AND RIGHTS-OF-WAY.				
WEEDS CONTROLLED	WEED GROWTH CONTROLLED	STATE	RATE/ha	CRITICAL COMMENTS
Blackberry	Summer to autumn	NSW, Qld, SA, Vic and WA only	10 L	Where herbicides other than Group I Herbicides have been used, allow two seasons regrowth to occur before respraying with Quantum TriPic 400 EC Herbicide. <b>WARNING:</b> <i>Eucalyptus</i> species up to 4 m may be killed if sprayed during this treatment. Mature trees which are 15 to 20 m tall may be partially defoliated but are likely to recover.
Gorse		Tas only		Helicopter application only.
Cockspur thorn, Crofton weed, Lantana, Mistflower	Late autumn	NSW, NT and Qld only (helicopter only)	1.5 L plus 7.5 L 2,4-D amine (500 g/L formulation)	Spray with calibrated equipment using the half overlap opposite pass technique applying a minimum spray volume of 150 L/ha. <i>Follow-up respraying will be required.</i>
Lantana			10 L	Helicopter application only.
Rubber vine (Not infected with rust)	When flowering	NT and Qld only (helicopter only)	3 L to 5 L	Use rates will depend upon the density and height of the rubber vine stand. The higher rates should be used on dense stands; however, complete coverage and penetration may be difficult. <i>Follow-up respraying will be required.</i> Any regrowth should be sprayed with a suitable basal bark herbicide.
St John's wort	Flowering to early seed set (Nov-Jan)	NSW only	4 L	Helicopter application only. <i>Follow-up spraying will be required in the following season.</i>

AGRICULTURAL NON-CROP AREAS ON FLOOD PLAINS				
WEEDS CONTROLLED	WEED GROWTH CONTROLLED	STATE	RATE/ha	CRITICAL COMMENTS
Parkinsonia	Seedlings, 1 - 2 m tall or 12 to 24 months old	Qld and NT only (helicopter only)	3 L	Add Uptake® Spraying Oil at 1 L/ha.

**Table C: Controlled Droplet Application (C.D.A.)**

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

AGRICULTURAL NON-CROP AREAS, COMMERCIAL AND INDUSTRIAL AREAS, PASTURES AND RIGHTS-OF-WAY.				
WEEDS CONTROLLED	WEED GROWTH CONTROLLED	STATE	RATE/ha	CRITICAL COMMENTS
Blackberry in association with: Docks, Ragwort, St John's wort, Thistles	Summer to autumn	All States except NT	Apply undiluted.	One application may give satisfactory control, but subsequent regrowth and seedlings should be re-sprayed after hardening off. Where herbicides other than Group I Herbicides have been used, allow two seasons regrowth to occur before respraying with Quantum TriPic 400 EC Herbicide.

**Table D: Low Volume High Concentrate Application Techniques (Gas Powered Gun, Sprinkler Sprayer)**

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

AGRICULTURAL NON-CROP AREAS, COMMERCIAL AND INDUSTRIAL AREAS, PASTURES AND RIGHTS-OF-WAY.				
WEEDS CONTROLLED	WEED GROWTH CONTROLLED	STATE	RATE/10 L WATER	CRITICAL COMMENTS
Blackberry	Late spring to autumn	ACT, NSW, Qld, SA, Tas and WA only	335 mL	Apply to actively growing bushes which are able to be sprayed on all sides. For larger bushes, the high-volume application technique is recommended.
Camphor laurel Cockspur thorn Crofton weed	Less than 1.5 m high	ACT, NSW and Qld only	500 mL	
<i>Eucalyptus</i> species	Seedlings up to 2 m tall	All States	335 mL	
Mistflower	Less than 1.5 m high	ACT, NSW and Qld only	500 mL	
Sweet briar	1.5 m tall, full leaf to ripe fruit	NSW only		<b>Gas Powered Gun only:</b> Apply to actively growing bushes not more than 1.5 m tall that have not more than 5 stems from the crown.

St John's wort	During flowering to early seed set	NSW, Tas and Vic only		<b>Gas Powered Gun only:</b> One application should provide control. Minor regrowth and seedlings may be retreated the following summer.
Wild tobacco tree	Less than 1.5 m high	ACT, NSW and Qld only		Apply to actively growing bushes which are able to be sprayed on all sides. For larger bushes, the high-volume application technique is recommended.

**Table E: Boom Application**

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

<b>AGRICULTURAL NON-CROP AREAS, COMMERCIAL AND INDUSTRIAL AREAS, PASTURES AND RIGHTS-OF-WAY.</b>				
<b>WEEDS CONTROLLED</b>	<b>WEED GROWTH CONTROLLED</b>	<b>STATE</b>	<b>RATE/ha</b>	<b>CRITICAL COMMENTS</b>
Galenia	Fresh growth during spring to summer	NSW only	5 L	Rough mine sites will require adequate spray equipment such as boomless nozzles for effective coverage.
Sicklepod	Up to flowering	NT and Qld only	3 L	<b>DO NOT</b> apply to podding plants. Add a 100% concentrate non-ionic surfactant at 100 mL/100 L of water.
St John's wort	Flowering to early seed set (Nov-Jan)	NSW only	2 to 4 L	Use the higher rate on dense infestations and when longer residual control is required. <i>Follow-up respraying will be required in the following season.</i>

## 2. FALLOW SITUATIONS

**Table A: Boom Application**

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

<b>FALLOW</b>				
<b>WEEDS CONTROLLED</b>	<b>WEED GROWTH STAGE</b>	<b>STATE</b>	<b>RATE /ha</b>	<b>CRITICAL COMMENTS</b>
Blackberry nightshade – <b>Suppression only</b>	10 to 25 cm tall, prior to flowering	NSW and Qld only	200 to 400 mL + 1.2 L	<b>FOR USE BY GROUND EQUIPMENT ONLY.</b>  Plants must be actively growing.  Use the lower rate on the smaller weeds, as specified in the weed growth stage (or up to 5 cm diameter for <i>Polymeria pusilla</i> ).
Camel melon Prickly paddy melon Cucumber melon ( <i>Cucumis melo</i> )	From 2 leaf to 50 cm diameter		Glyphosate 450 Herbicide + Adjuvant	

Common sowthistle	From 8 leaf to flowering			<p>Refer to Glyphosate 450 Herbicide label for use of adjuvant.</p> <p><b>DO NOT</b> plant susceptible crops for up to 9 months after application, as specified in General Instructions – Minimum Recropping Periods – Black Cracking Clay Soils, NSW &amp; Qld.</p> <p>Dry conditions after application will increase the recropping interval.</p>
Cow vine	From 2 to 5 leaf up to 15 cm diameter, prior to flowering			
Lucerne (established)	Active growth, 15 to 25 cm high, during spring		300 to 500 mL + 1.2 L Glyphosate 450 Herbicide + Adjuvant	
<i>Polymeria pusilla</i>	2 to 12 leaf up to 20 cm diameter, prior to flowering		200 to 400 mL + 1.2 L Glyphosate 450 Herbicide + Adjuvant	

**Table B: Blanket Wiper Application**

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

<b>FALLOW</b>				
<b>WEEDS CONTROLLED</b>	<b>WEED GROWTH STAGE</b>	<b>STATE</b>	<b>RATE</b>	<b>CRITICAL COMMENTS</b>
Bitterbark ( <i>Alstonia constricta</i> )	From summer to end of autumn	Qld	1:4 (1 part Quantum TriPic 400 EC Herbicide to 4 parts water)  2% solution for spot spray (e.g. 100 mL Quantum TriPic 400 EC Herbicide in 5 L water)	For use with blanket wipers only. For best results apply in autumn to tall (> 60 cm) plants using two opposite directional passes (up and back). Follow up “missed” plants with a spot spray application. These will be obvious after 6 weeks. Blanket wiper applications can be made in summer when plants are smaller but follow up spot spraying may be necessary. Do not disturb (cultivate) the treated patches for at least 3 months. Best long-term control is achieved when patches are left undisturbed for as long as possible after treatment (at least 6 months). <b>Spot spraying “missed” plants:</b> Thoroughly wet all stems and leaves without producing any solution run-off. Avoid any spray reaching the soil surface.

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

## GENERAL INSTRUCTIONS

### MINIMUM RE-CROPPING PERIODS – Black Cracking Clay Soils, NNSW & Qld.

Table A: Boom Application

Plant-back periods for crops following the application of Quantum TriPic 400 EC Herbicide for rates up to 600 mL/ha				
RATE mL/ha	200	300	400	600
CROP	Months			
Wheat	2	2	4	4
Barley	2	2	4	4
Canola	2	4	4	4
Faba bean	4	4	6	6
Chickpea	4	6	6	6
Lucerne	6	9	9	9

These plant-back periods are based on a normal rainfall pattern. During drought conditions (or when the rainfall is less than 100 mm for a period of 4 months or greater) the plant back period may be significantly longer.

Table B: Blanket Wiper Application

Plant-back periods for crops following blanket wiper application	
CROP	Months
Broadleaf crops	18
Lucerne	6 This will allow any potential soil residues to dissipate, if any, and allow effective control.

Note: Before using Quantum TriPic 400 EC Herbicide in tank mixes with other herbicides, check the plant back information on all product labels. The most residual product, i.e. the product with the longest plant-back period, will determine the time between spraying and planting.

## MIXING

### Mix only with water.

Half fill the spray unit with water, and add the required amount of Quantum TriPic 400 EC 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. Only mix sufficient solution for immediate daily use and avoid storing.

## APPLICATION

### 1. WOODY WEED SITUATIONS

Weeds need to be actively growing for herbicides to have optimum effect. Delay treatment until all regrowth has had time to grow to approximately 1 metre in situations which have been bulldozed, slashed, burnt, ploughed or areas having a previous chemical treatment.

### **A. High Volume Spraying**

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

#### **Hand Gun**

- Apply the recommended mix to give full coverage of leaves and stems through a No. 6 to 8 tip at 700 to 1500 kPa (400 to 500 kPa for St John's wort).
- A spray volume of 3000 to 4000 L per infested hectare of 1 to 2 metre high blackberry (30 to 40 L/100 m<sup>2</sup>) should be used.
- Use 2000 L of spray mixture/ha of Galenia infestation (i.e. 20 L/100 m<sup>2</sup> infested area).

#### **Knapsack**

- Apply the recommended spray mix to give full coverage of leaves and stems. The final volume of application should be similar to hand gun.
- A spray volume of 3 to 4 L/10 m<sup>2</sup> infested area should be used.
- A spray volume of 2 L/10 m<sup>2</sup> should be used for an area infested with Galenia.

### **B. Aerial Application**

- Apply in 200 L of water/ha using an aircraft to apply 100 L per pass on a double overlap pattern using nozzle configurations to produce droplets of 250 to 350 micron diameter.
- The potential for damage from drift can be greatly reduced by avoiding unsuitable spraying conditions and using spray pressure and nozzles to minimise the production of small droplets.
- **DO NOT** spray when wind exceeds 15 km/hr and/or air temperature reaches 35°C.

### **C. Controlled Droplet Application (C.D.A.)**

- Results similar to high volume spraying can be obtained using Micron Herbi\* or similar equipment. Select a nozzle to give a flow rate of 2 mL/sec and sweeping action of approximately 1 m/sec to ensure a droplet density of 20/cm<sup>2</sup>. Use a marking agent, as recommended by the equipment manufacturers, to check spray coverage. Also, consult directions provided by C.D.A. unit.

### **D. Low Volume High Concentrate Application Techniques**

- Good control will be achieved, similar to high volume application, where bush size enables good coverage of entire bush. Use a marking agent, as recommended by the equipment manufacturers, to check spray coverage.
- **Gas Powered Gun:** Apply 50 mL shots to obtain uniform coverage of 4 to 5 m<sup>2</sup> of surface area of bush. This relates to 20 droplets/cm<sup>2</sup> of leaf surface.
- **Sprinkler sprayer:** This technique involves using a micro sprinkler that is connected to a hollow fibre glass rod attached to a pneumatic knapsack sprayer. Use at low pressures (50 to 200 kPa) and apply with a slow sweeping action over the top of the plants ensuring even coverage on the leaves.

### **E. Boom Application**

- Application in a minimum spray volume of 200 L/ha for Galenia and St John's wort and 600 L of water/ha for Sicklepod. Flat fan nozzles are recommended, using pressure in the range of 200-300 kPa. Boom height must be set to ensure double overlap of nozzle patterns.

## **2. FALLOW SITUATIONS**

### **A. Boom Application**

- Application of Quantum TriPic 400 EC Herbicide in a minimum spray volume of 50 L/ha is recommended. Flat fan nozzles are recommended, using pressure in the range of 200-300 kPa. Boom height must be set to ensure double overlap of nozzle patterns.

### **B. Blanket Wiper Application**

- Blanket needs to be made from durable and wettable material with a rigid backing.
- Blanket should be rigidly mounted behind motorised vehicle (e.g. tractor, 4-wheel drive vehicle) and set low but never touching the ground. The chemical solution should be fed to the blanket at a flow rate sufficient to keep the blanket wet but not dripping. In thick patches the blanket may require more frequent solution recharge (rewetting).
- Ideally, a scraper bar should be mounted in front of the blanket in order to scrape or damage the bark (but not sever the stems) prior to the blanket wiping the stems. This scraper may be mounted at the front of the vehicle.
- Two passes (in opposite direction) with the blanket increases the contact with the plant. Ground speeds of 10-15 kph are ideal for blanket wiping application.

## **CLEANING SPRAY EQUIPMENT**

### **Rinsing**

- After using Quantum TriPic 400 EC Herbicide, empty spray unit completely and drain the whole system. Thoroughly wash inside the unit using a pressure hose. 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 Quantum TriPic 400 EC 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. SURF®, OMO®, OMOMATIC®, DRIVE® at 500 mL/100 L of water or the powder equivalent at 500 g/ 100 L of water) and circulate throughout the system for at least 15 minutes.
- 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.**