

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

eChem
TRICLOPYR 600
 HERBICIDE

ACTIVE CONSTITUENT: 600 g/L TRICLOPYR
present as the butoxyethyl ester

GROUP **II** HERBICIDE

For the control of various woody and broadleaf weeds as specified in the
 Directions for Use table.

IMPORTANT: READ THIS LEAFLET BEFORE USE

APVMA Approval Number: 69547/61096

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DIRECTIONS FOR USE

Restraints:

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, or previous herbicide treatment as reduced levels of control may result.

DO NOT spray if rain is likely within one (1) hour or if foliage is wet from rain and dew. However, when tank mixed with glyphosate 450 g/L Herbicide, this time extends to six (6) hours.

DO NOT burn off, cut or clear blackberry or other woody weeds for six (6) months after spraying.

1. WOODY WEEDS SITUATIONS

Table A: HIGH VOLUME SPRAYING

See GENERAL INSTRUCTIONS - APPLICATION section for application method details.

AGRICULTURAL NON-CROP AREAS COMMERCIAL AND INDUSTRIAL AREAS FOREST, PASTURES AND RIGHTS-OF-WAY.				
WEEDS CONTROLLED	WEED GROWTH STAGE	STATE	RATE/100 L WATER	CRITICAL COMMENTS
African boxthorn	Less than 2 m tall	Tas only	170 mL	
Angophora and Banksia regrowth	1 - 2 m tall	All States	400 or 560 mL	Use the higher rate on larger regrowth. Ensure the weed has dense foliage.
Blackberry	Active growth during late spring to early autumn		170 mL	Where herbicides other than Group I herbicides have been used, allow two seasons regrowth to occur before spraying with eChem Triclopyr 600 Herbicide. Any subsequent regrowth and seedlings should be sprayed after hardening off.
In association with St John's Wort	During flowering (Nov - Jan)	NSW, ACT, Vic, Tas only		Apply as a thorough foliage spray.
Brigalow	1 - 2 m tall	NSW, ACT, Qld only		Use at least 1000 L of water per hectare.
Brooms:English	Spring to mid-summer prior to pod formation	All States		
Camphor laurel	Seedlings up to 3 m tall			
Capeweed	Rosette	Tas only	80 mL	
Common prickly pear	Active growth	All States	3 L	
English ivy	Active growth during late spring or late summer	Vic only	1 L + 1 L glyphosate (360 g/L)	DO NOT treat ivy growing up trees or on other plants as death of the host may result. This mixture is not selective to grasses.
Eucalyptus	Seedlings and regrowth from small lignotubers, 1 to 2 m tall	Qld, SA, WA, NT only	400 mL	Add Decol* S35B Surfactant at 250 mL to 500 mL/100 L of water for best results.
		NSW, ACT, Tas, Vic only	560 mL	

Table A: HIGH VOLUME SPRAYING (cont)

See GENERAL INSTRUCTIONS - APPLICATION section for application method details.

AGRICULTURAL NON-CROP AREAS COMMERCIAL AND INDUSTRIAL AREAS FOREST, PASTURES AND RIGHTS-OF-WAY.				
WEEDS CONTROLLED	WEED GROWTH STAGE	STATE	RATE/100 L WATER	CRITICAL COMMENTS
Fennel	1 - 2 m tall	Tas only	170 mL	
Green cestrum		NSW, ACT, Qld, Vic only		Some regrowth may be expected the following season which can be sprayed after hardening off.
Groudsel bush (<i>Baccharis halimifolia</i>)	Seedlings 1 - 2 m tall	All States	160 mL	
	2 - 3 m tall		320 mL	
Gorse	Spring to mid-summer		170 or 340 mL	Add a 100% concentrate non-ionic wetting agent at the rate of 125 mL/100 L water. Retreatment of regrowth may be necessary. Use higher water rate on older hardened off plants.
Horehound	Rosette	Tas only	170 mL	
Saffron thistle	Up to bud stage		80 mL	
Tiger Pear	Active growth	All States	3 L	
Wattles, including Silver Wattle, Black Wattle.	Seedlings 1 - 2 m tall		160 mL	
	2 - 3 m tall		320 mL	

Table B: AERIAL APPLICATION

HELICOPTER - NSW, ACT, SA, TAS, VIC AND WA ONLY

HELICOPTER OR FIXED WING AIRCRAFT (QLD ONLY)

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
Blackber	Late spring to autumn	All states	4.8 L	AVOID overspray/drift onto waterways.

Table C: CONTROLLED DROPLET APPLICATION (CDA)

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	
Blackberry	Late spring to autumn	All states	170 mL/L water	

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 FORESTS PASTURES AND RIGHTS-OF-WAY.				
WEEDS CONTROLLED	WEED GROWTH STAGE	STATE	RATE	
Blackberry	Late spring to autumn	All states	280 mL/10 L water	
Eucalypt seedlings	1 - 2 m tall		400 mL/10 L water	

Table E: BASAL BARK AND CUT STUMP TREATMENT

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/60 L DIESEL	CRITICAL COMMENTS
African Boxthorn	Basal Bark: Plants up to 5 cm basal diameter Cut stump: Plants up to and in excess of basal bark sizes	All states	2 L	
Australian Blackthorn			1 L	
Broom		Tas only	1.25 L	
Brown Salwood		All States	0.5 L	
Bitter Bark		NSW & Qld only	1 L	
Castor Oil		All States		
Chinese Apple				
Dawson Gum		Qld only	2 L	
Eucalypts (except Dawson gum), False Sandalwood, Green Wattle, Lantana, Needlewood		All States	1 L	
Olive		SA only	2 L	
	NSW only	4 L		
Paperbark tea tree, Rubbervine Silver wattle	Basal Bark: Plants up to 5 cm basal diameter Cut stump: Plants up to and in excess of basal bark sizes	All States	1 L	
Sweet Briar			2 L	
Yellow-wood		Qld only		
Camphor Laurel	Basal Bark: Plants up to 10 cm basal diameter Cut stump: Plants up to and in excess of basal bark sizes	NSW, ACT, Qld only	1 L	
Common Prickly Pear		All States	0.8 L	Apply as a thorough foliage spray
Groundsel bush (<i>Baccharis halimifolia</i>)			0.5 L	Treat from early summer rains to end of April when regrowth is apparent.
Prickly Acacia				
Privet			5 L	Treatment may be carried out at any time of the year
Smooth Tree Pear, Tiger Pear			0.8 L	Apply as a thorough foliage spray
Tree of Heaven			1 L	

2. WOODY WEED SITUATIONS, FENCE LINES AND FIRE TRAILS ONLY

See GENERAL INSTRUCTIONS - APPLICATION section for application method details.

FENCE LINES AND FIRE TRAILS ONLY			
WEEDS CONTROLLED	WEED GROWTH STAGE	STATE	RATE
Broadleaf Hopbush, Narrowleaf Hopbush, Turpentine Bush	Basal Bark: Plants up to 10 cm basal diameter	NSW, ACT only	1 L/60 L Diesel

3. CROPPING/FALLOW SITUATIONS: FALLOW, STUBBLE, FIREBREAKS

See GENERAL INSTRUCTIONS - APPLICATION section for application method details.

FALLOW. STUBBLE. FIREBREAKS				
WEEDS CONTROLLED	WEED GROWTH STAGE	STATE	RATE/ha	CRITICAL COMMENTS
Camel (Afghan, bitter)	Up to 20 cm diameter	NSW, ACT, Qld, SA, Vic, WA only	120 mL #	There are some strains of melon that are not controlled. Contact your eChem representative or local Dept of Agriculture for more information.
Melon (<i>Citrullus lanatus</i>)	Runners from 20 - 40 cm diameter		160 mL #	
Prickly Paddy Melon (<i>Cucumis myriocarpus</i>)	Up to 20 cm diameter		80 mL #	
	Runners from 20 - 40 cm diameter		160 mL #	
DO NOT use oils when tank mixing with glyphosate 450g/L herbicides. See COMPATIBILITY section under GENERAL INSTRUCTIONS below. This mixture is not selective to grasses.				
When using eChem Triclopyr 600 and 450 g/L glyphosate herbicide by aerial application, observance of a buffer zone of 150 metres to protect native tree species is required.				

4. CROPPING/FALLOW SITUATIONS: SORGHUM (Apply between 4 -6 leaf stage, when secondary roots have developed).

See GENERAL INSTRUCTIONS - APPLICATION section for application method details.

SORGHUM (Apply between 4 and 6 leaf stage when secondary roots have developed)				
WEEDS CONTROLLED	WEED GROWTH STAGE	STATE	RATE/ha	CRITICAL COMMENTS
Prickly Paddy Melon (<i>Cucumis myriocarpus</i>)	Up to 20 cm diameter	NSW, ACT, Qld only	80 mL	DO NOT add crop oils, as severe crop damage may occur. Fusing of sorghum prop roots may be observed and this may be worse under stress (eg. root disease). Should only be mixed with Starane* 200 Herbicide and Atrazine (500 g/L flowable only) for increased weed spectrum.

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

IN TASMANIA FOR BLACKBERRY:

DO NOT TREAT BUSHES CARRYING MATURE OR NEAR MATURE FRUIT.

FOR NATIVE VEGETATION:

USE OF eCHEM TRICLOPYR 600 HERBICIDE ON NATIVE VEGETATION MUST BE DONE IN ACCORDANCE WITH STATE AND/OR LOCAL LEGISLATION.

WITHHOLDING PERIOD:

Pasture: NOT REQUIRED WHEN USED AS DIRECTED

Sorghum: NOT REQUIRED WHEN USED AS DIRECTED

GENERAL INSTRUCTIONS:

RESISTANT WEEDS WARNING

GROUP	HERBICIDE
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eChem Triclopyr 600 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, this product is a Group I herbicide. Some naturally-occurring weed biotypes resistant to eChem Triclopyr 600 Herbicide and other Group I 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 I herbicides.

Since the occurrence of resistant weeds is difficult to detect prior to use, eChem (Australia) Pty Ltd accepts no liability for any losses that may result from the failure of this product to control resistant weeds.

COMPATIBILITY

Fallow Situations

This product is compatible with 2,4D Amine or 2,4D Ester, glyphosate 450, Lontrel* Herbicide, Starane* 200 Herbicide, Touchdown* Broadacre, Chlorpyrifos 500 Insecticide.

When mixing with glyphosate in fallow, refer to the glyphosate label for use rate and recommended adjuvants. **DO NOT** use Uptake* Spraying Oil or D-C Trate* Crop Oil.

Sorghum

eChem Triclopyr 600 Herbicide is compatible with: Atrazine (500 g/L flowable product only) and Starane* 200 Herbicide. PVC gloves are not recommended for eChem Triclopyr 600 Herbicide. Therefore, when tank mixing with products that require PVC gloves to be worn, workers should wear nitrile gloves.

MINIMUM RECROPPING PERIODS

Before using eChem Triclopyr 600 Herbicide in tank mixes with other herbicides, check the plant-back information on all product labels. The product with the longest plant-back period will determine the time between spraying and planting.

Observe the following recropping periods for eChem Triclopyr 600 Herbicide:

Wheat, barley, sorghum, maize 7 days

Chickpeas, soybeans, sunflowers 7 days

Cotton 14 days

MIXING

Half fill the spray unit with water and add the required amount of eChem Triclopyr 600 Herbicide. Add the remaining water with the agitator running. If required, add crop oils or wetters /surfactants last. Maintain mechanical or by-pass agitation during spraying. Only mix sufficient solution for immediate daily use and avoid storing prepared solutions.

Basal Bark and Cut Stump Application

Quarter fill the spray unit or mixing container with diesel and add the required amount of eChem Triclopyr 600 Herbicide. Add the remaining diesel and shake or agitate thoroughly to mix the contents. Periodically shake or agitate to stop product settling out. Only mix sufficient solution for immediate daily use and avoid storing.

APPLICATION INFORMATION

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 one metre high in situations which have been bulldozed, slashed, burnt, ploughed or areas have a previous chemical treatment.

A. High Volume Spraying

Thorough coverage of foliage and stems to the point of runoff 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 - 1500 kPa. A spray volume of 3000 - 4000 L per hectare (30 40 L/100 m²) should be used on the weed infestation.

Knapsack

Use for smaller infestations, where penetration of the canopy is not essential. A spray volume of 3 - 4 L/10 m² of infested area should be used.

B. Aerial Application

Apply in 100 to 200 L water per hectare. Use a calibrated aircraft to apply in half overlap passes. Nozzle configurations should produce droplets of not less than 250 to 350 micron diameter (e.g. D8/45). 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 10 km/hr and/or air temperature reaches 30°C. Human flagging is not authorised unless protected by engineering controls such as vehicles with cabs.

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/cm². Use a marking agent, as recommended by the equipment manufacturer, to check spray coverage. Also, consult directions provided with 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 the bush. Use a marking agent, as recommended by the equipment manufacturer, to check spray coverage.

Gas Powered Gun:

Apply 50 mL shots to obtain uniform coverage of 4 to 5 m² of surface area of bush. This equates to 20 droplets/cm² of leaf surface.

Sprinkler Sprayer:

This technique uses a micro sprinkler which is connected to a hollow fibreglass rod attached to a pressure knapsack sprayer. Use low pressures (50 - 200 kPa) and apply with a slow sweeping action over the top of the plants ensuring even coverage on the leaves.

E. Basal Bark and Cut Stump Treatment

Use eChem Triclopyr 600 Herbicide mixed with diesel. Diesel may adversely affect the rubber seals in some spray equipment. To avoid this, fit spray equipment with Viton* seals and fittings.

When using eChem Triclopyr 600 Herbicide with diesel, nitrile gloves should be worn instead of rubber gloves.

Basal Bark Method

DO NOT apply to wet stems as this can repel the diesel mixture. Apply only with hand-directed equipment such as a pressure sprayer or paint brush. Spray equipment should be used at low pressures, up to 200 kPa, to avoid excessive splashing or drift. Species with old, rough bark require more thorough wetting than smooth barked species.

Liberally spray or paint the bark around the stem from ground level up to 30 cm high, wetting thoroughly to the point of runoff (unless otherwise stated).

Cut Stump Method

Stems should be cut less than 15 cm above the ground. Immediately apply eChem Triclopyr 600 Herbicide/diesel mixture liberally to the freshly cut stump by spraying or painting the cut surface and sides of the stem.

2. CROPPING/FALLOW SITUATIONS

A. Boom Application

Application of eChem Triclopyr 600 Herbicide in a minimum spray volume of 50 L/ha is recommended. Flat fan nozzles are recommended, using pressures in the range of 200 - 300 kPa. Boom height must be set to ensure double overlap of the nozzle patterns.

B. Aerial Application

DO NOT allow eChem Triclopyr 600 Herbicide to physically drift onto desirable plants. Aircraft may be used to apply eChem Triclopyr 600 Herbicide in fallow situations, when ground application equipment cannot be used due to prolonged wet conditions. A minimum spray volume of 35 L/ha should be used with flat fan and CP nozzle configurations. DO NOT apply eChem Triclopyr 600 Herbicide by aircraft when wind exceeds 10 km/hr and/or air temperature reaches 30°C. Droplets with an average size (Volume Mean Diameter) of 250 - 350 micron are recommended. Human flagging is not authorised unless protected by engineering controls such as vehicles with cabs.

CLEANING SPRAY EQUIPMENT - WATER-BASED CLEANING

Rinsing

After using eChem Triclopyr 600 Herbicide, empty the spray unit completely and drain the whole system. Thoroughly wash inside the spray unit using a pressure hose. Drain the spray unit and clean filters, 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 procedure twice.

Decontamination

Before spraying cotton and other sensitive crops with equipment that has been used to apply eChem Triclopyr 600 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 alkaline detergent (e.g. liquid SURF*, OMO*, OMOMATIC*, DRIVE*, at 500 mL/100 L of water or the powder equivalent at 500 g/100 L 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 over a designated disposal area or, if this is unavailable, onto unused land away from desirable plants and water courses.

CLEANING SPRAY EQUIPMENT - DIESEL-BASED CLEANING

Rinsing

After using eChem Triclopyr 600 Herbicide dissolved in diesel, empty the spray unit completely and drain the whole system. Thoroughly wash inside the spray unit using a pressure hose. Completely drain the spray unit and clean any filters in the tank, pump, lines, hoses and nozzles.

Alternatively, use a degreaser such as Caltex Kwik-D-Grease* to remove traces of diesel from the sprayer. Rinse tank and spray through the nozzles with water to remove degreaser.

Decontamination

After rinsing, as described above, quarter fill the tank with clean water and add an alkali detergent (e.g. liquid SURF*, OMO*, OMOMATIC*, DRIVE* at 50 mL/10 L of water or the powder equivalent at 50 g/10 L water). Shake or operate spray to circulate the washing solution throughout the sprayer and spray the solution through the nozzles. Rinse thoroughly with clean water and repeat using detergents (see above). DO NOT use this equipment for any other purpose.

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

Crops susceptible to eChem Triclopyr 600 Herbicide include, but are not limited to: peas, lupins, lucerne, navy beans, soybeans and other legumes; cotton, fruit, hops, ornamentals, shade trees and Pinus spp., potatoes, safflower, sugar beet, sunflower, tobacco, tomatoes, vegetables and vines.

eChem Triclopyr 600 Herbicide is damaging to susceptible crops during both growing and dormant periods. Grasses are normally unaffected and establish quickly after treatment. DO NOT allow spray drift onto waterways, native vegetation or susceptible crops. When using eChem Triclopyr 600 Herbicide and glyphosate 450 by aerial application in fallow situations, observance of a buffer zone of 150 metres to protect native tree species is required. DO NOT apply under weather conditions, or from spraying equipment, that may cause spray to drift onto nearby susceptible plants/crops, cropping lands or pastures.

PROTECTION OF LIVESTOCK

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

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

This product is highly toxic to fish and other aquatic organisms. DO NOT contaminate streams, rivers or waterways with chemical or used containers.

SMALL SPILL MANAGEMENT

Wear appropriate clothing and protective equipment whilst cleaning up spills (see SAFETY DIRECTIONS). Apply absorbent material such as earth, sand, cat litter or clay granules to the spill. Sweep up contaminated material when absorption is complete and contain in a refuse vessel for disposal. If necessary wash the spill area with alkali detergent and water and absorb this wash liquid for disposal as above for disposal. Dispose of the contaminated material in accordance with the STORAGE AND DISPOSAL instructions below.

STORAGE AND DISPOSAL

Store in the closed, original container, in a cool, well-ventilated area away from children, animals, food, feedstuffs, seed and fertilisers. DO NOT store for prolonged periods in direct sunlight.

Triple or, preferably, pressure 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 and puncture containers and deliver empty packaging for appropriate disposal to an approved waste management facility. Empty containers and product should not be burnt. DO NOT reuse containers.

SAFETY DIRECTIONS

Poisonous if swallowed. May irritate the eyes and skin. Avoid contact with the eyes and skin. When opening the container, preparing spray and using the prepared spray, wear cotton overalls buttoned to the neck and wrist, a washable hat and elbow-length rubber 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. PhoneAustralia: 13 11 26.

MATERIAL SAFETY DATA SHEET

Additional information is listed in the Material Safety Data Sheet (MSDS) which is available from the supplier.

CONDITIONS OF SALE

eChem (Australia) Pty Ltd. accepts responsibility for the consistent quality of the product however since the use and application of the product is beyond control, the company accepts no responsibility whatsoever for any loss, damage or other result following the use of the product whether used in accordance with directions or not; other than those mandatorily imposed by statutes, the liability is limited to the replacement of the goods and is conditional upon a claim made in writing and, where necessary, a sufficient part of the goods being returned for proper examination by the company within thirty days of sale.

*Registered trademark