

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

HURRICANE 600
HERBICIDE

Active Constituent: **600** g/L TRICLOPYR (present as the butoxyethyl ester)

GROUP 1 HERBICIDE

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

IMPORTANT: READ THE ATTACHED LEAFLET BEFORE USING THIS PRODUCT,

Contents: 1 Litre
5 Litres
10 Litres
20 Litres
110Litres
200 Litres
500 Litres

ChemAg Pty Ltd
Suite 12, 11 Preston Street
P O Box 395
Como West Aust 6152
Tel: (08) 9367 1799
Fax: (08) 9367 6144

GENERAL INSTRUCTIONS

RESISTANT WEEDS WARNING

Hurricane 600 Herbicide is a member of the Pyridines group of herbicides; Hurricane 600 Herbicide has the disruptors of plant cell growth mode of action. For weed resistance management, Hurricane 600 Herbicide is a group 1 Herbicide. Some naturally occurring weed biotypes resistant to Hurricane 600 Herbicide and other disruptors of plant cell growth 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 Hurricane 600 Herbicide or other disruptors of plant cell growth herbicides. Since the occurrence of resistant weeds is difficult to detect prior to use, ChemAg Pty Ltd accepts no liability for any loss that may result from the failure of Hurricane 600 Herbicide to control resistant weeds.

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

Hurricane 600 Herbicide is damaging to vines, vegetables, cotton, tomatoes, ornamentals and many other plants during both growing and dormant periods. Grasses are normally unaffected and establish quickly after treatment.

DO NOT allow spray to drift onto susceptible crops such as cotton, tomatoes, vines, fruit, potatoes, vegetables, ornamentals, tobacco, lupins and other legumes, safflower, flowers, shade trees and pinus spp.

DO NOT apply under meteorological conditions or from spraying equipment, which could be expected to cause spray to drift onto nearby susceptible plants.

PROTECTION OF LIVESTOCK, WILDLIFE, FISH, CRUSTACEA AND THE ENVIRONMENT

DO NOT contaminate streams, rivers, waterways, water used for irrigation, drinking or other domestic purposes, with the chemical or used container.

STORAGE AND DISPOSAL

Store in the dosed, original container in a dry, 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 or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

Refillable Containers: Empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage.

SAFETY DIRECTIONS

Poisonous if swallowed. May irritate the eyes and skin. Avoid contact with eyes and skin. When opening the container, preparing spray and using the prepared spray wear cotton overalls buttoned to 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 (Phone 13 11 26). If in eyes, hold eyes open, flood with water for at least 15minutes and see doctor.

For further information refer to the Material Safety Data Sheet (MSDS).

CONDITIONS OF SALE

"ChemAg Pty Ltd ("ChemAg") shall not be liable for any loss injury damage or death whether consequential or otherwise whatsoever of 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 ChemAg's skill or judgement in purchasing or using the same and every person dealing with the product does at his own risk absolutely. No representative of ChemAg has any authority to add to or alter these conditions".

NRA Approval No: 52934/0500

Batch Number:

Date of Manufacture:

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Application: Apply with hand – directed equipment such as high volume spraying equipment, knapsack sprayer, knapsack misting machines with the following exceptions.

Mistblower: Eucalyptus, Blackberry, Brigalow only.

Aircraft: Blackberry only.

Controlled Droplet Application (CDA): Blackberry only.

Gas Gun, Sprinkler Sprayer: Blackberry, Eucalyptus seedlings only.

Boomsprayer: Paddy melon, Afgan, Bitter or Camel Melon only.

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GENERAL INSTRUCTIONS:

MIXING:

Only mix sufficient chemical for each day's work. Re-mix after extended periods of settling. PVC gloves are not recommended for Hurricane 600 Herbicide. Therefore, when tank mixing with products that need to be handled with PVC gloves, workers should wear nitrile gloves.

HIGH VOLUME SPRAYING:

This product mixes readily with water. Pour the measured quantity into the partially filled spray tank and add the remainder of the water. Agitate thoroughly during filling, while spraying and before recommencing spraying after a stoppage.

BASIL BARK AND CUT STUMP TREATMENT:

Add the required amount of diesel distillate in the spray tank with the agitator running and mix thoroughly. When using Hurricane 600 with diesel, nitrile gloves should be worn instead of rubber gloves.

Dilution rates for the cut stump and basil bark treatments: (see also directions for use table).

Weeds	Dilution	Amount of Invader 600	Volume of spray mixture made up with diesel to: litres	Concentration of triclopyr g/L
Privet	1-12	420mL	5	50
		1.25L	15	50
		8.3L	100	50
Olive(NSW only)	1-14	360mL	5	43
		1.1L	15	43
		7.2L	100	43
Sweet briar, African boxthorn, Dawson gum, Yellow wood, Olive (SA only)	1-30	170mL	5	20
		500mL	15	20
		3.3L	100	20
Broom(Tas only)	1-46	105mL	5	12.5
		315mL	15	12.5
		2.1L	100	12.5
Majority of species including eucalyptus, wattle, tea tree, rubbervine, tree of heaven (see directions for use table)	1-60	85mL	5	10
		250mL	15	10
		1.7L	100	10
Brown salwood, pickly acacia, groundsel bush	1-120	45mL	5	5
		125mL	15	5
		850mL	100	5

FOR NSW ONLY:

WITH THE EXCEPTION OF REGROWTH LESS THAN FIVE YEARS OLD AND UNDER THREE METRES TALL, THE CLEARING OF MORE THAN FIVE HECTARES OF TREES BY AERIAL, GROUND OR SPOTGUN APPLICATION IN NSW IS PROHIBITED, UNLESS SPECIFICALLY AUTHORISED BY PERMIT. THIS RESTRICTION DOES NOT APPLY TO WOODY WEEDS.

When using spray equipment for basal bark and cut stump application use low pressure up to 200 kPa maximum. Minimise spray drift from high volume application by using low pressures and nozzles, which do not give a fine droplet size, Delay treatment until all regrowth has had time to emerge on bulldozed or ploughed areas.

After use, clean equipment thoroughly and rinse several times prior to re-use. Discharge washings on non-crop, non-pasture lands away from water supply and homes. Keep container tightly closed.

Equipment that has been used for application of this chemical should not be used for application of other materials to sensitive plants.

AERIAL APPLICATION

Human flagging is not authorised unless protected by engineering controls such as vehicles with cabs.

DIRECTIONS FOR USE:

RESTRAINTS

DO NOT spray blackberry suffering from drought stress. DO NOT burn off, cut or clear blackberry for six months after spraying.

In TASMANIA FOR BLACKBERRY, DO NOT treat bushes carrying mature or near mature fruit.

HIGH VOLUME SPRAYING

Situation	Weeds Controlled	State	General Rate/100L of water	Knapsack Rate/15L of water	Critical Comments
Commercial and Industrial Situations, Rights of Way, Pastures and Forest's	Blackberry	QLD, NSW, Vic, SA, WA only	170m/L	25m/L	Apply from late spring to early autumn when bushes are actively growing. Best results are achieved from application made between January and April. One application may give satisfactory control but subsequent regrowth and seedlings should be resprayed after hardening off. Do not use this product under extremely dry conditions as considerable regrowth may occur. Thorough coverage is essential, however, avoid excess spraying which is wasteful of chemical. Where herbicides other than Invader 600 or Grazon DS have been used, allow two seasons regrowth to occur before respraying with Hurricane 600 Herbicide or Grazon DS.
		Tas only	As or 170mL	15 or 25mL	Apply from petal fall to leaf fall except when bushes are carrying mature fruit. Application from mid-fruit stage to leaf fall may give improved control. Use the higher rate on large bushes when complete wetting is difficult.
	Seedling Camphor laurel (up to 3m tall). English broom	All States	170mL	25mL	Thoroughly spray foliage when growth is active.
	Green cestrum	QLD, NSW, Vic only.			
	Brooms	QLD, NSW, Vic only			
	Eucalyptus (seedlings and regrowth from small lignotubers). Banksia and Angophora	All states	400 or 560 mL	60 or 90mL	Ensure plant has good coverage on foliage. Thoroughly spray foliage when growth is active. Apply the high rate in Vic, Tas, Southern NSW and where difficult to kill species of eucalyptus are present. Add DECOL S35B anionic surfactant at 250 to 500 mL/100L of spray for optimum results on eucalyptus. NSW ONLY: Apply to actively growing regrowth which is less than five years old and under 3m tall.
	Wattles (including silver and black wattle). Groundsel bush	All states	160 or 320mL	25 to 50 mL	Thoroughly spray foliage when growth is active. Use the lower rate on young seedlings and the high rate on plants more than 2m tall. NSW only: For wattles apply only to actively growing regrowth which is less than five years old and under 3m tall.
	Brigalow	QLD, NSW only	170mL	25mL	Overall high volume spray in 1000L of water/ha. See also Air Blast Spraying.
	Gorse	All states	170 or 340mL	25 or 50mL	Apply from spring to mid-summer. Use the high rate on older hard plants. Add a non-ionic wetting agent at a rate of 125mL/100L. Do not burn bushes for at least 6 months following treatment. Retreatment of regrowth may be necessary.

	Common prickly pear, tiger pear	All States	3L	450mL	Apply as a thorough foliage spray.
	Common prickly pear, tiger pear, smooth tree pear.		1L per 75L diesel		Mix this rate with diesel only and apply as a thorough foliage spray.
	St Johns wort	NSW, VIC, Tas only	170mL	25mL	Apply as a thorough foliage spray.
	Fennel, African boxthorn, Horehound, Broom.	Tas only.	170mL	25mL	Apply as a thorough foliage spray.
	Saffron thistle (up to bud stage), Capeweed		80mL	12mL	

IR BLAST SPRAYING (MISTBLOWER) DONOT SPRAY WITHIN 1KM OF SUSCEPTIBLE CROPS.

Situation	Weeds Controlled	State	Rate	Critical Comments
Commercial & Industrial situations in non-urban areas, Rights of way, Pastures and Forests.	Eucalyptus	All States	320mL/10L of water	Apply during active growth to give full coverage of foliage and stems. NSW ONLY: For eucalyptus apply only to actively growing regrowth which is less than 5 years old and 3m tall.
	Blackberry	All States		
	Brigalow	QLD, NSW only		

AERIAL APPLICATION (HELICOPTER NSW, VIC, TAS, SA, WA ONLY)(HELICOPTOR OR FIXED WING AIRCRAFT QLD ONLY)

Situation	Weeds Controlled	State	Rate	Critical Comments
Commercial & Industrial situations in non-urban areas, Rights of way, Pastures and Forests.	Blackberry	All States	4.8L in 100 to 200L of water/ha	Spray with properly calibrated helicopter using the half overlap opposite pass technique. Nozzle combination should not be less than DW45. Spraying in wind in excess of 10km/hour and temperature above 25°C is not recommended.

CONTROLLED DROPLET APPLICATION

Situation	Weeds Controlled	State	Rate	Critical Comments
Commercial & Industrial situations, Rights of way, Pastures and Forests	Blackberry	All States	170mL / 1L of water	Results similar to high volume spraying can be obtained using Micron Herbi(1) or similar equipment. Select a nozzle and give a Row rate of 2 mL/sec and pass speed of approximately 1m/sec and ensure a droplet density of 20/cm ² . A marking agent should be used to check spray coverage. Consult directions provided with CDA unit

LOW VOLUME HIGH CONCENTRATE APPLICATION TECHNIQUES Gas Gun, Sprinkler Sprayer.

Situation	Weeds Controlled	State	Rate	Critical Comments
Commercial & Industrial situations, Rights of way, Pastures and Forests.	Blackberry	All States	1L/35L of water	Good control will be achieved similar to high volume application where bush size enables good coverage of entire bush. Use of marking agent is recommended to check spray coverage. NSW ONLY: For Eucalyptus apply only to actively growing regrowth which is less than 5 years old and under 3m tall.
	Eucalypt Seedlings	All States	1L/25L of water	

BOOM SPRAYING

Situation	Weeds Controlled	State	Rate	Critical Comments
Fallow, Stubble, Firebreaks	Paddy Melon (cucumis Myriocarpus)	NSW, SA, VIC, WA, QLD only.	80 or 160mL + 1% v/v DC-Tron crop oil/ha (*)	Use the higher rate on plants greater than 20cm in diameter. Do not spray stressed plants. • NOTE – 1% v/v equals 1 L D-C Tmn / 1 00L water.
	Afgan, Bitter or Camel Melon (Citrullus Lanatus)		120 or 160mL + 1% v/v D-C-Tron crop oil/ha (*)	

BASAL BARK AND CUT STUMP TREATMENT

Situation	Weeds Controlled	State	Rate	Critical Comments
Commercial and Industrial situations, Rights of way, Pastures and Forests.	Australian Blackthorn	All States	1L/60L diesel distillate	<p>BASAL BARK SPRAY For the treatment of suckers and seedlings up to 5cm basal diameter (up to 10cm for tree of heaven and camphor laurel). Spray or paint bark round stem to 30cm wetting thoroughly. Old rough bark may require more thorough spraying than young smooth bark.</p> <p>CUT STUMP Apply to freshly cut stumps of suckers and seedlings more than 5cm in basal diameter. Best results are obtained when stems are cut to within 15cm of ground level. Apply liberally by spraying or painting cut surface and sides of stems. Do not treat Australian blackthorn or tree of heaven during the dormant period.</p>
	Bitter Bark, Camphor Laurel	QLD, NSW only		
	Chinese apple, Eucalyptus (except Dawson Gum), False Sandalwood, Green Wattle, Lantana, Needlewood, Paperbark, Teatree, Rubbervine, Silver Wattle, Tree of Heaven, Castor Oil.	All States		
	Broom	Tas only	1L/48L diesel distillate	
	Brown Salwood	All States	1L/120L diesel distillate	For Basal Bark spray treatment of suckers up to 5cm Basal diameter, treat as above. Use cut stump treatment, as above for larger plants.
	Prickly Acacia, Groundsel Bush			For Basal Bark spray treatment of suckers up to 10cm Basal diameter, treat as above. Use Cut Stump Treatment, as above for larger plants. Treat from early summer rains to end of April when regrowth is apparent.
	Sweet Briar, African Boxthorn			For Basal Bark spray treatment of plants up to 5cm Basal diameter, treat as above. Use cut stump treatment as above for larger plants. Do not treat Sweet Briar and African Boxthorn during the dormant period.
	Dawson Gum, Yellow Wood	QLD only		

	Olive	SA only	1L/30L diesel distillate	Cut Stump: Apply immediately to freshly cut surface of stumps.
		NSW only	1L/14L diesel distillate	Cut Stump: Cut Stump as close to ground level as possible and immediately swab the cut surface. Basal Bark, apply mixture with low pressure sprayer to the base of stems from ground level to 30cm high.
	Privet	All States	1L/12L diesel distillate	For Basal Bark treatment of plants up to 10cm Basal diameter, treat as above. Use cut stump treatment, as above for larger plants. Treatment may be carried out at any time of the year.

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

**WITH-HOLDING PERIOD:
NOT REQUIRED WHEN USED AS DIRECTED**