

READ SAFETY DIRECTIONS BEFORE OPENING OR USING



# Bushwacker®

## Brush Control Herbicide

**ACTIVE CONSTITUENT: 600g/kg METSULFURON-METHYL**

For the control of broadleaf weeds and brush species in pastures, rights-of-way, commercial and industrial areas as specified in the Directions for Use.

### DIRECTIONS FOR USE

#### BRUSH CONTROL IN PASTURES, RIGHTS OF WAY, COMMERCIAL AND INDUSTRIAL AREAS

**RESTRAINTS:** DO NOT store a suspension of Bushwacker for more than two (2) days otherwise significant breakdown may occur.

DO NOT store tank mixes of Bushwacker when mixed with other materials.

DO NOT spray if rainfall is expected within four (4) hours.

SITUATION	WEEDS CONTROLLED	STATES	RATE			CRITICAL COMMENTS
			Boom g/ha	Handgun g/100L	Gas Gun g/L	
Pastures*, Rights of Way, Commercial and Industrial areas	Alligator Weed ( <i>Alternanthera philoxeroides</i> )	NSW only	80			Apply in terrestrial situations only. Follow-up applications over at least two seasons are essential for complete control.
	Apple Box ( <i>Angophora floribunda</i> ), Messmate Stringybark ( <i>E. obliqua</i> ), Peppermint gum ( <i>E. radiata</i> ), Red Gum ( <i>E. blakelyi</i> ), Yellow box ( <i>E. melliodora</i> )			10 + Spraymate Freeway (200mL/ 100L)	1 + Spraymate Freeway (10mL/5L)	Apply to plants up to 4m high. Avoid spraying when plants are stressed. Ensure thorough foliage cover. Results cannot be guaranteed where suckers originate from large lignotubers.
	Australian Blackthorn ( <i>Bursaria spinosa</i> )	NSW, Qld, Tas, Vic, only		10	1 + Spraymate Freeway (10mL/5L)	Apply when bushes are actively growing. Avoid spraying when bushes are stressed. Handgun – spray to thoroughly wet all foliage, but not to cause run-off.
	Bathurst Burr ( <i>Xanthium spinosum</i> )	NSW only		5 or 7.5		Apply to actively growing plants up to early flowering. Use the higher rate when plants are beyond early flowering. Plants under moisture stress will not be controlled.
	Bellyache Bush ( <i>Jatropha gossypifolia</i> )	Qld only		10 + Spraymate Freeway (200mL/ 100L)		
	Blackberry ( <i>Rubus spp.</i> )	All States & NT		10	1 + Spraymate Freeway (10mL/5L)	Apply when bushes are actively growing: (Tas. Only: Apply after petal fall) (Vic. only: Apply between December and April). Spray to thoroughly wet all foliage and canes. Ensure peripheral runners are sprayed.
	Bitou Bush/Boneseed ( <i>Chrysanthemoides monilifera</i> )	NSW, Qld, Vic, SA only		10	1+ Spraymate Freeway (10mL/5L)	Spray to thoroughly wet all foliage. Minimise contact with desirable species.



SITUATION	WEEDS CONTROLLED	STATES	RATE			CRITICAL COMMENTS
			Boom g/ha	Handgun g/100L	Gas Gun g/L	
Pastures*, Rights of Way, Commercial and Industrial areas	Bridal Creeper ( <i>Myrsiphyllum asparagoides</i> )	SA only		5		Apply during mid-June to late August. Follow-up applications over at least 2 seasons will be required for complete control. Water volumes of 500-800L/ha are recommended to minimise the risk of damage to native vegetation.
	Common Bracken ( <i>Pteridium esculentum</i> )	All States & NT	60	10		Spray after full frond expansion. Spray to thoroughly wet all foliage, but not to cause run-off. For boom application – adjust boom height to ensure complete spray overlap. Avoid spraying when plants are stressed or in conditions of prolonged dry weather when soils are dry.
	Crofton Weed ( <i>Eupatorium adenophorum</i> )	NSW & Qld only		15		Spray to thoroughly wet foliage but not to cause run-off. Extra care should be taken to get good spray coverage when spraying bushes situated in thickets. Apply to actively growing weeds up to early flowering. Best results are obtained on younger plants. If regrowth occurs, retreat in the subsequent growth period.
	Darling Pea ( <i>Swainsona Spp.</i> )	NSW only	10			Apply during spring.
	Fennel ( <i>Foeniculum vulgare</i> )	NSW only		10		Apply to actively growing plants.
	Golden Dodder ( <i>Cuscuta australis</i> )	SA, NSW, Qld, Vic only		1		Apply as a spot spray to point of run-off. Ensure correct coverage of infested area. Apply pre-flowering.
	Gorse ( <i>Ulex europaeus</i> )	Vic, Tas, SA, NSW only		10 + Spraymate Freeway (200mL/ 100L)		Apply to bushes up to 2m tall. Ensure thorough spray penetration and coverage of the whole plant.
	Great Mullein ( <i>Verbascum thapsus</i> )	NSW only	20 + Spraymate Freeway (200mL/ 100L)			Regrowth may occur if growing conditions are not good. Apply during spring at times of good soil moisture to rosettes before stem elongation.
	Hawthorn ( <i>Crataegus laevigata</i> )	NSW only		10		Apply when bushes are actively growing. Avoid spraying when bushes are stressed. Spray to thoroughly wet all foliage but not to cause run-off.
	Inkweed ( <i>Phytolacca octandra</i> )	Qld, NSW only		5		Spray to thoroughly wet all foliage but not to cause run-off.
	Japanese Sunflower ( <i>Tithonia diversifolia</i> )	NSW only		10		
	Kangaroo Thorn ( <i>Acacia paradoxa</i> )					Apply to bushes up to 2.5m high when actively growing.
	Lantana ( <i>Lantana camara</i> )	Qld, NSW only		10	2 + Spraymate Freeway (10mL/5L)	Apply to bushes up to 2m tall. Spray to thoroughly wet all foliage and stems. Spray should penetrate throughout the bush. Should regrowth occur, re-treatment will be necessary.
	Mistflower ( <i>Eupatorium riparium</i> )			5		Spray to thoroughly wet all foliage but not to cause run-off. Apply to actively growing weeds up to early flowering.
	Noogoora Burr ( <i>Xanthium pungens</i> )	NSW only		7.5		Apply to actively growing plants. Plants under moisture stress will not be controlled.
	Parthenium ( <i>Parthenium hysterophorus</i> )	Qld only	7	5		<b>Handgun</b> – Spray to thoroughly wet all foliage but not to cause run-off.
	NSW only				<b>Boom</b> – (Pastures only). Apply up to rosette stage. Spray to thoroughly wet all foliage adjust boom height to ensure complete overlap.	
Paterson's Curse/ Salvation Jane ( <i>Echium plantagineum</i> )	All States	15	5		<b>Boomspray</b> – Spray to thoroughly wet all foliage. Adjust boom height to ensure correct spray overlap. <b>Handgun</b> – Spray to thoroughly wet all foliage but not to cause run-off. <b>WA only</b> – Spray plants at early flowering stage (August-September).	
Privet ( <i>Ligustrum spp.</i> )	Qld, NSW only		10	1 + Spraymate Freeway (10mL/5L)	Apply to bushes up to 3m high. Complete foliar spray coverage is essential for control: partial spray coverage will result in recovery. DO NOT spray when bushes are stressed.	



SITUATION	WEEDS CONTROLLED	STATES	RATE			CRITICAL COMMENTS
			Boom g/ha	Handgun g/100L	Gas Gun g/L	
Pastures*, Rights of Way, Commercial and Industrial areas	Ragwort ( <i>Senecio jacobaea</i> )	Vic, Tas, NSW only	15	5		Apply to actively growing plants at rosette to cabbage stage.
	Rubber Vine ( <i>Cryptostegio grandiflora</i> )	Qld only		15		Apply to bushes up to 3m tall. Apply from October through April when bushes are actively growing. Ensure thorough spray coverage of all foliage and leaders. Incomplete coverage will result in regrowth.
	Sweet Briar ( <i>Rosa rubiginosa</i> )	NSW, Tas, S.A, Vic only		10	1 + Spraymate Freeway (10mL/5L)	Apply when bushes are actively growing. Avoid spraying when bushes are stressed, when leaf fall has commenced or after the end of February. <b>Handgun</b> – Spray to thoroughly wet all foliage, but not to cause run-off. <b>Vic Only:</b> Gas Gun – Apply to bushes less than 2m high as application to bushes in excess of 2m may produce variable results. Apply with shots of 25mL of dilute product.
	Tree of Heaven ( <i>Ailanthus altissima</i> )	NSW only			As above.	
	Wait-a-While ( <i>Caesalpinia decapetala</i> )	Qld only		10		
	Wild Turnip ( <i>Brassica tounefortii</i> )	NSW only		5		Apply to actively growing plants.

\* WILL DAMAGE LEGUMES IN PASTURES.

#### AERIAL APPLICATION BY HELICOPTER

SITUATION	WEEDS CONTROLLED	STATES	RATE g/Ha	CRITICAL COMMENTS
Pastures*, Rights of Way, Commercial and Industrial areas	Blackberry ( <i>Rubus spp.</i> )	NSW, Tas, Vic only	160	Apply when bushes are actively growing. <b>(Tas only:</b> Apply after petal fall) <b>(Vic only:</b> Apply between December and April) Use not less than 100L prepared spray/ha.
Flood Plains	<i>Mimosa pigra</i>	NT only	50 or 60	Use the higher rate when air temperature exceeds 35°C. Apply in at least 60L/ha of clean water. Use D6 or D8 nozzles with 45 swirl plates pressurised to 210kPa to give a large droplet size. Add a non-ionic surfactant. Apply when plant is actively growing. Avoid spraying when plants are stressed.

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#### BUSHWACKER AND WIPE-OUT 360 (GLYPHOSATE) (ALL STATES AND NT)

SITUATION	WEEDS CONTROLLED	RATE - AERIAL OR BOOM	RATE - HANDGUN OR KNAPSACK	CRITICAL COMMENTS
Pastures Forests Commercial and Industrial areas Rights of way Domestic and public service areas	Blackberry ( <i>Rubus spp.</i> )	8.0 L Wipe-Out 360 plus 60 g Bushwacker per Ha	400 mL Wipe-Out 360 plus 3 g Bushwacker per 100 L water	For Blackberries, apply from flowering until prior to leaf yellowing. Due to widespread picking of Blackberries by the public, it is not recommended that the product be applied to bushes bearing mature fruit. Use Pulse Penetrant at the rate of 100 mL per 100 L water.
	Bracken ( <i>Pteridium esculentum</i> )	4.0 L Wipe-Out 360 plus 30 g Bushwacker per Ha	400 mL Wipe-Out 360 plus 3 g Bushwacker per 100 L water	For Bracken, apply when frond are fully unfurled but prior to first frosts. For boom application, refer to Boom application section. Use Pulse Penetrant at the rate of 100 mL per 100 L of water.
	Gorse ( <i>Ulex europaeus</i> )		400 mL Wipe-Out 360 plus 3 g Bushwacker per 100 L water	For Gorse, apply when actively growing at any time of year, except Spring. Use Pulse Penetrant at the rate of 100 mL per 100 L of water
	Lantana ( <i>Lantana camara</i> )			For Lantana, apply when actively growing. Do NOT apply during periods of Summer drought stress. Use Pulse Penetrant at the rate of 100 mL per 100 L of water.
	St John's Wort ( <i>Hypericum perforarum</i> )			For St. John's Wort, apply when actively growing from Spring to Summer. Use Pulse Penetrant at 100 mL per 100 L of water.
	Sweet Briar ( <i>Rosa rubiginosa</i> )			For Sweet Briar, apply when in full leaf, prior to leaf fall. Use Pulse Penetrant at 100 mL per 100 L of water.

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



**GENERAL INSTRUCTIONS:** Apply when bushes/plants are actively growing. Where treatment is delayed or bushes/plants are not actively growing due to adverse conditions (such as a period of prolonged dry weather) or if partial spray coverage occurs, results may be slow to appear and subsequent regrowth may occur. Should regrowth occur, re-treatment at the recommended rate is advised. Re-treatment of blackberries should only be undertaken once regrowth has reached one (1) metre tall - this may not be until two (2) years after the initial application. For control of bushes previously sprayed with other brush control herbicides or for berries which may have been burned or slashed ensure two (2) years have elapsed. Legumes will be removed from pasture if over-sprayed with BUSHWACKER herbicide. Some crops are extremely sensitive to low concentrations of this product. See "Sprayer Clean-up" section. Due to widespread picking of blackberries by the public, it is recommended that the product is not applied to bushes bearing mature fruit.

**RESISTANT WEEDS WARNING:** Farnoz Bushwacker Herbicide is a member of the Sulfonylurea group of herbicides. Bushwacker has the inhibitor of the enzyme acetolactate synthase (ALS) mode of action. For weed resistance management Bushwacker is a Group B Herbicide. Some naturally occurring weed biotypes resistant to Bushwacker and other ALS inhibitor herbicides are known to 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 Bushwacker or other ALS inhibitor herbicides. Since the occurrence of resistant weeds is difficult to detect prior to use, Farnoz Pty. Ltd. accepts no liability for any losses that may result from the failure of Bushwacker to control resistant weeds. However resistance should not be assumed without first viewing the method of application, the coverage and the timing of application. If the user suspects that an ALS inhibitor-resistant weed is present, Bushwacker or other ALS inhibitor herbicides should not be used. Strategies to minimise the risk of herbicide resistance are available. Consult your farm chemical supplier, consultant, local Department of Agriculture or Farnoz representative.

**USE OF SURFACTANT/WETTING AGENTS:** ALWAYS ADD A 1000G AC/L (100%) NON-IONIC SURFACTANT WETTING AGENT e.g. Wetspray 1000, at a rate of 0.1% Volume/Volume i.e. 100mL/100L prepared spray mixture. Use the surfactant Spraymate Freeway+ when recommended in the Directions for Use Table and with all gasgun applications (0.2% v/v, i.e. 10mL/5L). Use Pulse penetrant at 100 mL per 100 L water where recommended.

**HANDGUN APPLICATION:** Spray foliage and canes until wet. Ensure coverage is uniform and complete. Use pressures of 550-750kPa (80-100psi) depending on target species and size of bush. Use larger nozzles and higher pressures for larger bushes.

For example:-

- Size No. 4 or 5 spray nozzles: small individual bushes or broadleaf weeds - less than 1m high.

- Size No. 5 or 6 spray nozzles: medium sized bushes 1 - 2m high.

- Size No. 7 or 8 spray nozzles: large bushes 2-3m high or of a large diameter.

Note: Use large spray nozzles/high volume for blackberry regrowth.

Spray using a wide cone setting as much as possible. Use even, side-by-side pattern moving up from the base to the top of the bush as leaves are wet. For blackberries, do not ignore runners to the side or the top of the bush and ensure spray penetrates larger bushes to wet foliage and canes.

**GAS GUN APPLICATION:** Apply to ensure good coverage of all foliage is achieved. The use of a suitable marker dye is recommended. e.g. Agmurph White Lightning.

**BOOM SPRAY APPLICATION:** Use a boom spray properly calibrated to a constant speed or rate of delivery to ensure coverage and uniform spray pattern. Adjust boom height to ensure correct spray overlap. Avoid spraying where drift can move onto crops, areas likely to be planted to crops and non target pastures as injury may occur. Apply in a minimum of 150L prepared spray/ha. Increase to 200L prepared spray/ha for more dense stands of bracken.

**AERIAL APPLICATION - (BY HELICOPTER ONLY):** Apply in a minimum of 100L per ha on Blackberries or 60L per ha on Mimosa pigra and up to a maximum of 200L prepared spray/ha. Higher water volumes may be necessary to ensure adequate coverage where bushes are large and terrain is steep. Spray with a properly calibrated helicopter using the half overlap opposite pass technique. Avoid spraying in still conditions and

where conditions favour temperature inversions. Avoid spraying where drift can move onto crops, areas likely to be planted to crops and non target pastures as injury may occur. Turn off spray booms whilst passing over creeks and dams.

**SPRAY PREPARATION:** BUSHWACKER is a wettable powder formulation conveniently packed in 10g aluminium sachets. BUSHWACKER is to be mixed with water and applied as a spray. Partially fill the spray tank with clean water. Add the required amount of product directly into the spray tank with the agitation system engaged. Top up the correct volume with water. THIS PRODUCT MUST BE KEPT IN SUSPENSION AT ALL TIMES BY CONTINUOUS AGITATION. Where prepared spray solutions have been allowed to stand, thoroughly reagit before using. **IMPORTANT INFORMATION FOR THE USE OF BUSHWACKER IN ALL SITUATIONS:**

#### SPRAYER CLEAN UP

To avoid subsequent injury to crops or pasture, immediately after spraying thoroughly remove all traces of BUSHWACKER from mixing and spray equipment as follows:

1. Drain tank, then flush tank, boom and hoses with clean water for a minimum of 10 minutes.
2. Fill the tank with clean water then add 60mL household chlorine bleach (containing 4% chlorine) per 20L of water. Flush through boom and hoses then allow to stand for 15 minutes with agitation engaged, then drain.
3. Repeat step 2.
4. Nozzles and screens should be removed and cleaned separately. To remove traces of chlorine bleach, rinse the tank thoroughly with clean water and flush through hoses and boom.

**CAUTION:** DO NOT use chlorine bleach with ammonia. All traces of liquid fertilizer containing ammonia, ammonium nitrate or ammonium sulphate must be rinsed with water from the mixing and application equipment before adding chlorine bleach solution. Failure to do so will release a gas with a musty chlorine odour which can cause eye, nose, throat and lung irritation. Do not clean equipment in an enclosed area.

#### PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS:

Injury to or loss of desirable trees or vegetation may result from failure to observe the following:

DO NOT apply or drain or flush equipment on or near desirable trees or other plants or on areas where their roots may extend or in locations where the chemical may be washed or moved into contact with their roots.

DO NOT apply or allow spray to drift onto adjacent crops and non-target desirable plants, or onto agricultural land scheduled to be planted to other crops as injury to the crop may occur.

#### PROTECTION OF WILDLIFE, FISH, CRUSTACEA AND ENVIRONMENT:

DO NOT contaminate any body of water by spraying and cleaning of equipment or disposal of waste.

**PROTECTION OF LIVESTOCK:** A nil withholding period is applicable for Farnoz Bushwacker Brush Control Herbicide. It is recommended, however, not to graze treated areas for 3 days to ensure product efficacy.

**STORAGE AND DISPOSAL: KEEP OUT OF REACH OF CHILDREN.** Store in the closed, original container in a dry, well-ventilated area, as cool as possible but out of direct sunlight. Keep from contact with fertilisers, fungicides and seeds. The product is stable for two (2) years if stored as indicated above. Puncture top, bottom and sides of empty container, then crush and bury in an approved landfill, or bury under at least 500mm of soil in a non crop, non pasture area away from water sources and homes.

**SAFETY DIRECTIONS:** May irritate the eyes and skin. Avoid contact with eyes and skin. DO NOT inhale dust or spray mist. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water.

**FIRST AID:** If poisoning occurs, contact a doctor or Poisons Information Centre on 131126.

#### MSDS

A material safety data sheet for BUSHWACKER is available from FARMOZ on request. Call Customer Service on (02) 9363 3611.

**CONDITIONS OF SALE:** The use of FARMOZ BUSHWACKER Brush Control Herbicide beyond the control of the manufacturer, no warranty expressed or implied is given by FARMOZ Pty. Ltd., regarding its suitability, fitness or efficiency for any purpose for which it is used by the buyer, whether in accordance with the directions or not and FARMOZ Pty. Ltd. accepts no responsibility for any consequence whatsoever from the use of this product.

**PACK SIZE: 25g CARTON, 100g CARTON**



***Acknowledgments:***

Collated by HerbiGuide. Phone 08 98444064 for more information.