

Product Name: GENFARM FLUPROPANATE 745 SL HERBICIDE  
APVMA Approval No: 81889/140114



Label Name:	GENFARM FLUPROPANATE 745 SL 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 CONSTITUENT: 745 g/L FLUPROPANATE present as the sodium salt
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Mode of Action:	GROUP 0 HERBICIDE
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Statement of Claims:	For control of certain grasses in pasture, non crop areas and tea tree as per the directions for use table.
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Net Contents:	1 L - 1000 L
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Restraints:	<p><b>RESTRAINTS</b> DO NOT apply this product to steeply sloping sites when applying high rates recommended for perennial grass control. DO NOT allow spray drift onto susceptible crops and ornamentals. DO NOT spray near desirable trees. DO NOT graze, or cut for stock feed, areas which have received spot spray treatment, for at least 14 days after spraying. DO NOT graze, or cut for stock feed, areas which have received any treatment other than spot spraying, for at least 4 months after spraying. Remove stock from treated areas and DO NOT slaughter or milk them for human consumption until they have been on clean feed for at least 14 days.</p> <p><b>SPRAY DRIFT RESTRAINTS</b> 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> DO NOT allow bystanders to come into contact with the spray cloud. 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</p>
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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.  
DO NOT apply unless the wind speed is between 3 and 20 kilometres per hour at the application site during the time of application.  
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 one to two hours before sunset and persist until one to two hours after sunrise.

Directions for Use: This section contains file attachment.

Other Limitations:

Withholding Periods: WITHHOLDING PERIODS  
There are two withholding periods (WHP's), which apply one after the other for this chemical, and both must be observed. The first, the grazing and cutting WHP, depends on the type of spraying used.  
Stock which have been grazed in treated areas after the grazing and cutting WHP has passed must then be moved to untreated areas or fed on clean feed for at least 14 days before they can be slaughtered or milked for human consumption. The requirement for moving animals from treated to untreated areas, or feeding them with clean feed for at least 14 days before milk is collected for human consumption or animals are sent to slaughter, applies permanently to treated areas, whether spot sprayed or sprayed in some other way.  
  
SPOT SPRAYING  
Spot spray treatment is the direct hand spraying of individual plants in an area with no spraying of any surrounding areas.  
DO NOT graze or cut for stock feed, areas which have received spot treatment, for at least 14 days after spraying; AND, IF STOCK ARE GRAZED IN THE TREATED AREAS AFTER THE 14 DAYS HAS PASSED, remove stock from treated areas and DO NOT slaughter or milk them for human consumption until they have been on clean feed for at least 14 days.  
  
OTHER SPRAYING  
This means any treatment other than direct hand spraying of individual plants.  
DO NOT graze, or cut for stock feed, areas which have received any treatment other than spot spraying, for at least 4 months after spraying; AND, IF STOCK ARE GRAZED IN THE TREATED AREAS AFTER THE 4 MONTHS HAS PASSED, remove stock from treated areas and DO NOT slaughter or milk them for human consumption until they have been on clean feed for at least 14 days.  
  
TEA TREE: Lactating cows and goats must not be grazed in treated areas.

Trade Advice:

General Instructions: GENERAL INSTRUCTIONS  
Important  
• This product is very slow acting and control of existing growth will take 3-12 months depending on weather conditions and senescence of plant foliage.  
• The actual length of satisfactory residual control will depend on soil type and rainfall until regeneration occurs from grass seed or surviving rhizomes.

- GENFARM FLUPROPANATE 745 SL HERBICIDE is liable to leaching and movement in the soil under heavy rainfall or irrigation, and dry conditions favour its persistence in the soil.
- Avoid use in channels and drains and where roots of desirable plants may extend; and in other situations where desirable plants grow close to the treated area.
- Control of grasses growing in shaded conditions may be reduced.
- Subterranean clover and other annual legumes may be damaged by this product if exposed to the spray or if they germinate before product residues have dissipated from the soil. Do not treat pasture land with this product more than once per year.

#### Mixing

This product is highly soluble in water and the required amount can be added direct to the spray tank while stirring or with the agitator running. When used in mixtures with dispersible powders, first make a slurry of the powder in a small quantity of water, add this to the half filled spray tank with the agitator running, and then add the required quantity of product and continue filling until the spray tank is full. Good agitation must be maintained during the spraying operation.

#### Wetting agent

Addition of 100 mL of a non-ionic surfactant (600 g/L) per 100 litres of spray is recommended.

#### Compatibility

This product may be mixed with Glyphosate to improve knockdown of existing vegetation.

#### Application

Boom spray equipment should be carefully calibrated to deliver the required volume of spray and checked to see that the nozzles are delivering a uniform spray pattern.

#### Paddock Preparation

Graze to reduce cover of desirable species for spraying.

#### Re-seeding

Desirable pasture species such as phalaris, cocksfoot, ryegrass, red and white clovers, subterranean clovers and lucerne may be sown after at least 100 mm of leaching rain has fallen. If drought conditions prevail defer sowing until next season.

#### Clean up

Equipment should be cleaned after use.

#### Resistance Warning:

#### RESISTANT WEEDS WARNING GROUP 0 HERBICIDE

GENFARM FLUPROPANATE 745 SL HERBICIDE is a member of the chlorocarbonic acids group of herbicides. GENFARM FLUPROPANATE 745 SL HERBICIDE has the inhibitor of lipid synthesis mode of action.

For weed resistance management GENFARM FLUPROPANATE 745 SL HERBICIDE is a Group 0 Herbicide. Some naturally occurring weed biotypes resistant to GENFARM FLUPROPANATE 745 SL HERBICIDE and other inhibitors of lipid synthesis mode of action 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 GENFARM FLUPROPANATE 745 SL HERBICIDE or any other inhibitors of fat synthesis mode of action herbicides.

Since the occurrence of resistant weeds is difficult to detect prior to use, Nutrien Ag Solutions Limited accepts no liability for any losses that may result from the failure of GENFARM FLUPROPANATE 745 SL HERBICIDE to control resistant weeds.

Precautions:	
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Protections:	<p>PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS 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.</p> <p>PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT Do not contaminate streams, rivers or watercourses with the chemical or used containers.</p>
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Storage and Disposal:	<p>Store in the closed, original container in a cool, well-ventilated area. Do not store for prolonged periods in direct sunlight.</p> <p>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.</p> <p>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>For drumMUSTER containers: This container can be recycled if it is clean, dry, free of visible residues and has the drumMUSTER logo visible. Triple-rinse container for disposal. Dispose of rinsate or any undiluted chemical according to state legislative requirements. Wash outside of the container and the cap. Store cleaned container in a sheltered place with cap removed. It will then be acceptable for recycling at any drumMUSTER collection or similar container management program site. The cap should not be replaced, but may be taken separately.</p> <p>For REFILLABLE containers: Empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage.</p>
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Safety Directions:	<p>Avoid contact with eyes and skin. Do not inhale spray mist. When preparing the spray wear elbow length PVC gloves and face shield or goggles. Always use in the open or a well ventilated area. After use and before eating, drinking or smoking, wash hands and face thoroughly with soap and water. After each day's use, wash gloves, face shield or goggles, and contaminated clothing.</p>
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First Aid Instructions:	<p>If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 13 11 26, New Zealand 0800 764 766.</p> <p>If skin contact occurs, remove contaminated clothing and wash skin thoroughly.</p>
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First Aid Warnings:	
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**DIRECTIONS FOR USE**

Crop/ Situation	Weeds Controlled	States	Rate			Critical Comments
			Ground per/ha	Air per/ha	Spot Spraying per 100L	
Industrial use	Paspalum ( <i>Paspalum dilatatum</i> )	TAS, WA, SA and Vic. only	9 L	-	500 mL	Apply to existing growth during November to February inclusive. Apply the recommended rate of GENFARM FLUPROPANATE 745 SL HERBICIDE in 800-2000L of water per ha. Ensure that the spray completely wets all leaf surfaces. <b>Spot spraying:</b> spray thoroughly to ensure run-off.
	Kikuyu grass ( <i>Pennisetum clandestinum</i> )					
	Couch ( <i>Cynodon dactylon</i> )					
	African Feathergrass ( <i>Pennisetum macrourum</i> )	TAS., WA only,	9 L	-	-	
Pastures and non-crop situations	Parramatta grass ( <i>Sporobolus</i> spp.)	Qld, NSW, Vic, WA only	2 L	2 L	200 mL	Apply December to February inclusive. <b>Application volumes:</b> Pastures <b>Aerial:</b> 40-80 L water per/ha <b>Ground Boom Spray:</b> 150 L water per/ha <b>Spot Spraying:</b> NSW & Qld: 1000 L/ha or for a 15L knapsack treat 150m <sup>2</sup> .
	Sporobolus sp. such as Giant Parramatta Grass ( <i>S. fertilis</i> ), Giant Rat's Tail Fescue ( <i>S. pyramidalis</i> ) and <i>S. natalensis</i> )	NSW only	1.5-2 L	-	200 mL	In Northern NSW apply from July to December inclusive, during the drier time of year. Use the higher rate for heavy infestations. To obtain better herbicide selectivity and less damage to desirable pasture species, apply when the pasture is dormant, semi-dormant. For example, in NSW, the optimum application time is late winter and early spring. DO NOT apply in severe droughts or to weeds retarded by burning.
	African love grass ( <i>Eragrostis curvula</i> )	NSW, WA only	3 L	-	300 mL	Apply July to December.
		Vic. only				Apply July to December inclusive. All other Critical Comments as for Serrated Tussock (Vic.).
	Rats tail grasses	Qld, WA only	2 L	-	200 mL	Spray to run-off.
Urban open space, woodlands, roadsides, nature reserves and pastures	Needle grasses ( <i>Nassella neesiana</i> , <i>N. leucotricha</i> , <i>N. hyalina</i> , <i>N. charruana</i> , <i>N. tenuissima</i> )	NSW, ACT, Vic, SA, WA only	1.5 – 3 L	-	200 mL + 150 mL Glyphosate 360 Herbicide	Apply tank mix to actively growing plants from Spring to autumn. Apply once per year.
					100 mL-300 mL	Calibrate spray equipment to apply 1000L water per hectare. Apply to actively growing and stress free plants. Control will take 3-12 months depending on weather conditions and senescence of plant foliage. High rates will kill native grasses. Apply once per year. Avoid use in channels or drains. Do NOT re-seed treated areas until at least 100mm of leaching rain has fallen.
Pastures and non-crop situations	Coolatai Grass (Small patchy infestations) ( <i>Hyparrhenia</i> spp)	NSW only	-	-	300 mL per 100 L water	Apply in winter and spring between the months of July and October. Apply using high volume spot spray applicators. Apply herbicide solution to Coolatai grass to the point of run-off from leaf surfaces.

Crop/ Situation	Weeds controlled	States	Rate				Critical Comments
			Ground per/ha	Air	Wiper	Spot spraying per/100 L	
Pastures and non-crop situations	Serrated Tussock ( <i>Nassella trichotoma</i> )	Vic, TAS., WA only	2 L	2 L	-	200 mL	<p>Apply during November to February inclusive. Graze to reduce cover of desirable species before spraying. Re-seeding: Desirable pasture species such as phalaris, cocksfoot, ryegrass, red and white clovers, subterranean clovers and lucerne must not be sown until at least 100mm of leaching rain has fallen. If drought conditions prevail defer sowing until next season. Spot Spraying: Spray to run-off at anytime from spring through to autumn but observe above precautions on re-seeding.</p> <p><b>Application volumes:</b> Pastures Aerial: 40-80L water per/ha <b>Ground Boom Spray:</b> 150L water per ha <b>Spot Spraying:</b> NSW &amp; Qld - 1000 L/ha or for a 15L knapsack treat 150 m<sup>2</sup>.</p>
	Serrated Tussock ( <i>Nassella trichotoma</i> )	Qld only	2 L	2 L	-	200 mL	
Pasture – broadacre treatment	Serrated Tussock ( <i>Nassella trichotoma</i> )	NSW, ACT, Vic, WA only	1.5-2 L	1.5-2 L	1:20 via a rotating wiper	-	<p>Apply September to March and June to August inclusive</p> <p>Aerial application: apply in a volume of 35-80L of water. In more difficult country, use higher rates of water, anti-drift additives and larger droplets.</p> <p>Ground application: apply in a volume of 80-150L. Use the lower rate on slate, shale and granite soils, use the higher rate on basalt soils.</p> <p>Rotating Wiper: graze heavily prior to treatment to ensure height differential between pasture and serrated tussock. In dense serrated tussock, stock may not graze heavily and some pasture damage may result. Apply as single or double pass.</p> <p>Winter application: avoid application in very dry winters.</p>

Crop/ Situation	Weeds controlled	States	Rate				Critical Comments	
			Ground per/ha	Air	Wiper	Spot spraying per/100 L		
Pasture – broadacre treatment -to remove seedlings from improved pasture	Serrated Tussock ( <i>Nassella trichotoma</i> )		0.5-2 L	-	-		Apply September to February inclusive	Seedlings of serrated tussock are susceptible to shading and low rates of flupropanate. In all situations, use conservative stocking rates and fertilise to maintain a vigorous pasture after spraying.  Use the lower rate for slate and granite soils. Serrated Tussock plants must be less than 10cm high, and have less than 80 leaves. Apply September to November before pastures “bolt” in the spring flush, or December to February when improved species are dormant.
Pasture – broadacre treatment - spray topping			1.5-2 L + 0.6-1.25 L Glyphosate 360 Herbicide + wetting agent	1.5-2 L + 0.6-1.25 L Glyphosate 360 Herbicide + wetting agent	-	-	Apply September to November inclusive	If applied after August, serrated tussock is still likely to set viable seed. To prevent seeding, the use of a knockdown spray may be applicable where it is acceptable to damage associated pasture species. Spray to wet plant – approximately 1000L of prepared solution per hectare.  Rotating wiper – Apply as a double pass 2 to 8 weeks before seed heads begin to emerge. Add a wetting agent at the recommended label rates. Will NOT kill serrated tussock but will reduce seeding. Graze heavily prior to treatment to ensure height differential between pasture and serrated tussock. In dense serrated tussock, stock may not graze heavily and some pasture damage will occur.

Crop/ Situation	Weeds controlled	States	Rate				Critical Comments
			Ground per/ha	Air	Wiper	Spot spraying per/100 L	
Pasture – spot treatment - to destroy serrated tussock	Serrated Tussock ( <i>Nassella trichotoma</i> )		-	-	-	150-200 mL	Can be applied all year round  Calibrate spray equipment to apply to 1000 L water per hectare. The addition of a wetter to the glyphosate use pattern may prove beneficial. Lower rates of may be used on slate and granite soils. Use a dye marker. Area may need re-treatment in subsequent years. Flupropanate may take several months to affect plants. Seed set may be prevented by the addition of a knockdown herbicide, such as Glyphosate.
Pasture – spot treatment - to destroy serrated tussock and prevent seeding			-	-	-	150-200 mL + 120 mL Glyphosate 360 Herbicide	Apply September to November inclusive  To prevent seed set, spray before seedheads begin to emerge.  See critical comments for Pasture, "spot treatment to destroy serrated tussock above.

Crop/ Situation	Weeds Controlled	States	Rate			Critical Comments
			Per/ha	Per 100 L	Knapsack (15 L)	
Non-crop situations	Paspalum	Qld, NSW, WA only	9 L	500 mL	75 mL	For optimum results apply during active growth, preferably from November to April. Apply in 800-2000 L water per ha. Spray must completely wet all surfaces. The addition of wetting agent is recommended. Johnson grass: Spray when actively growing and not less than 30-50 cm high. Use 12 L in winter rainfall areas when rainfall is below 80 cm per annum. Use 18-22 L in summer rainfall areas or where rainfall exceeds 80cm per annum. Follow up spraying may be required in following season. Spot Spraying: Spray thoroughly to run-off with the recommended dilution rates.
	Couch					
	Johnson grass		12-22 L	1 L	200 mL	
	Kikuyu grass	Qld, WA only	9 L	500 mL	75 mL	
	Columbus grass	NSW, WA only	12-22 L	1 L	200 mL	

Note: The optimum timing of GENFARM FLUPROPANATE 745 SL HERBICIDE application to avoid damage to desirable pasture species and/or to allow GENFARM FLUPROPANATE 745 SL HERBICIDE residues to be leached from the soil prior to autumn re-seeding is the period November to February inclusive. Precautions on re-seeding and protection of pasture legumes must be observed.



Crop	Weeds	Application Rate	Critical Comments
Tea tree	Giant parramatta grass	2 L/ha or 200 mL/ 100 L water	Apply by boomspray or by spot spraying. Use the 200 mL/100 L water rate for spot spraying. Application soon after harvest is suggested. Can be applied over tea tree at any growth stage.

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