

Product Name: Benuron 750 WG Herbicide
APVMA Approval No: 94160/141718



Label Name:	Benuron 750 WG Herbicide
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Signal Headings:	CAUTION KEEP OUT OF REACH OF CHILDREN READ SAFETY DIRECTIONS BEFORE OPENING OR USING
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Constituent Statements:	750 g/kg TRIBENURON-METHYL
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Mode of Action:	GROUP 2 HERBICIDE
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Statement of Claims:	For the control of certain broadleaf weeds in fallows and pre-crop situations as per the DIRECTIONS FOR USE table.
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Net Contents:	500 g – 5 kg
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Restraints:	<p>DO NOT apply to weeds that are not actively growing or stressed by any cause such as adverse weather conditions, drought and water logging. Broadleaf weeds under stress frequently become less susceptible to herbicide activity. This may result in an incomplete kill or only growth suppression. If heavy grazing has occurred allow regrowth before spraying.</p> <p>Minimum volumes of prepared spray to be applied:</p> <ul style="list-style-type: none">• Ground application - 50 L/ha• Aerial application - 20 L/ha <p>Use prepared spray suspensions within two days of preparation, otherwise significant breakdown may occur.</p> <p>DO NOT apply If rainfall is expected within 2 hours.</p> <p>SPRAY DRIFT RESTRAINTS</p> <p>Specific definitions for terms used in this section of the label can be found at apvma.gov.au/spraydrift</p> <p>DO NOT allow bystanders to come into contact with the spray cloud.</p>
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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.

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 PERIOD: NOT REQUIRED WHEN USED AS DIRECTED

Trade Advice:

General Instructions: This section contains file attachment.

Resistance Warning: Resistant Weeds Warning

GROUP 2 HERBICIDE

BENURON 750 WG Herbicide is a member of the Sulfonylurea group of herbicides. BENURON 750 WG Herbicide has the Inhibitor of Acetolactate Synthase (ALS) mode of action. For weed resistance management BENURON 750 WG Herbicide is a Group 2 Herbicide. Some naturally occurring weed biotypes resistant to BENURON 750 WG Herbicide and other Group 2 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 BENURON 750 WG Herbicide or other Group 2 Herbicides. Since the occurrence of resistant weeds is difficult to detect prior to use, Sinon Australia Pty Ltd accepts no liability for any losses that may result from failure of BENURON 750 WG Herbicide to control resistant weeds.

Large numbers of healthy surviving weeds can be an indication that resistance is developing. Efforts should be taken to prevent seed set of these survivors. DO NOT use Group 2 Herbicide against the same weed in the crop following the use of BENURON 750 WG Herbicide alone either as a fallow or pre-crop treatment. This does NOT apply if the fallow or pre-crop use if BENURON 750 WG Herbicide was tank mixed with Glyphosate.

Avoid the prolonged use of Group 2 Herbicide on the same weed population. If the user suspects that as ALS inhibitor resistant weed is present, BENURON 750 WG Herbicide or other Group 2 Herbicides recommended for the control of those weeds 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 Primary Industries, or local Sinon Australia Pty Ltd representative.
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Precautions:	
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Protections:	<p>PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGETED PLANTS INCLUDING AQUATIC PLANTS. Injury to or loss of desirable trees, vegetation including aquatic plants may result from failure to observe the following: 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 chemical or used containers.</p> <p>PROTECTION OF LIVESTOCK The use pattern is such that a withholding period for harvest or grazing is not required. It is recommended however, not to graze treated areas for 2 to 3 days to ensure adequate control is achieved.</p>
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Storage and Disposal:	<p>STORAGE AND DISPOSAL Store in the closed, original container in a dry, cool, well-ventilated area, out of direct sunlight. Keep from contact with fertilisers, insecticides, fungicides and seeds. DO NOT re-use container.</p> <p>Triple-rinse containers before disposal. Dispose of rinsate or any undiluted chemical according to state/territory legislative requirements. 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>
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Safety Directions:	<p>SAFETY DIRECTIONS Will irritate the eyes. Avoid contact with eyes. When preparing spray wear elbow length PVC gloves and face shield or goggles. If product in eyes, wash out immediately with water. After use and before eating, drinking, or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves and face shield or goggles.</p>
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First Aid Instructions:	<p>FIRST AID If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 13 11 26, New Zealand 0800 764 766.</p>
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First Aid Warnings:	
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DIRECTION FOR USE

Benuron 750 WG Herbicide – NSW & Qld only

SITUATION	WEEDS CONTROLLED	RATE g/ha	WEEDS GROWTH STAGE AT APPLICATION	CRITICAL COMMENTS
FALLOW and PRE-CROP (- refer to Crop Options section for minimum intervals between application and sowing)	Amaranthus / Boggabri weed (<i>Amaranthus mitchellii</i>)	25	Apply up to the 10-leaf stage	As a herbicide Resistance counteracting measure, DO NOT use an ALS inhibitor herbicide in the crop following the use of BENURON 750 WG Herbicide as a preceding fallow or pre-crop treatment.
	Caltrop / Yellowvine (<i>Tribulus terrestris</i>)			
	Sowthistle / Milk Thistle (<i>Sonchus oleraceus</i>)			
	Deadnettle (<i>Lamium amplexicaule</i>)	25	Apply up to the 6-leaf stage	If weeds are at a more advanced growth stage and/or are present in high numbers (greater than 50 per m ²) use a Glyphosate mixture as specified in the BENURON 750 WG Herbicide and Glyphosate Tank mix table
	Medics (Native)	30	Apply up to 5 cm diameter	As a herbicide Resistance counteracting measure, DO NOT use an ALS inhibitor herbicide in the crop following the use of BENURON 750 WG Herbicide as a preceding fallow or pre-crop treatment.
	New Zealand Spinach (<i>Tetragonia tetragonoides</i>)	20	Apply up to the 10-leaf stage	
	Prickly Lettuce (<i>Lactuca serriola</i>)	30	Apply up to the 4-leaf stage	
	Turnip Weed (<i>Rapistrum rugosum</i>)	20	Apply up to flowering	
<p>Always add non-ionic surfactant (1000g/L – non buffering type) at 100 mL/100L (0.1% v/v) of final volume. When applying BENURON 750 WG Herbicide alone by air, in addition to a non-ionic surfactant, add a mineral spray oil at 1L/100L (1% v/v) of final spray volume.</p>				

Benuron 750 WG Herbicide + Glyphosate Tank Mixes Table – NSW & Qld only

For the control of these weeds in addition to those in the Benuron 750 WG Herbicide alone table

SITUATION	WEEDS CONTROLLED	RATE g/ha	WEEDS GROWTH STAGE AT APPLICATION	CRITICAL COMMENTS
FALLOW and PRE-CROP (- refer to Crop Options section for minimum intervals between application and sowing)	Black Bindweed (<i>Fallopia convolvulus</i>)	25 <i>plus</i> Glyphosate (450 g/L) 600 mL/ha	Apply up to the 10-leaf stage	For best control, apply to small actively growing weeds. Larger weeds are more difficult to control.
	Common Thornapple (<i>Datura stramonium</i>)	20 <i>plus</i> Glyphosate (450 g/L) 400 mL/ha	Apply up to 8-leaf stage	
	Deadnettle (<i>Lamium amplexicaule</i>)	25 <i>plus</i> Glyphosate (450 g/L) 400 mL/ha	Apply up to 10-leaf stage	
	Mintweed (<i>Salvia reflexa</i>)	15 <i>plus</i> Glyphosate (450 g/L) 600 mL/ha		
	Pigweed / Portulaca (<i>Portulaca oleracea</i>)	20 <i>plus</i> Glyphosate (450 g/L) 400 mL/ha		
	Prickly Lettuce (<i>Lactuca serriola</i>)		Apply up to 6-leaf stage	
Always add non-ionic surfactant (1000g/L – non buffering type) at 100 mL/100L (0.1% v/v) of final volume.				

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

GENERAL INSTRUCTIONS

Best results are obtained when BENURON 750 WG Herbicide is applied to young actively growing weeds. The rate will depend on weed spectrum at time of application. The degree of control and duration of effect are dependent on rate used, sensitivity and size of target weeds and environmental conditions at the time of and following application. BENURON 750 WG Herbicide stops growth of susceptible weeds rapidly. However, typical symptoms of dying weeds (discolouration) may not be noticeable for 1 to 3 weeks after application depending on the environmental conditions and susceptibility. Warm, moist conditions following treatment promote the activity of Choice BENURON 750 WG Herbicide, while cold, dry conditions delay activity. Weeds hardened-off by cold weather and/or drought stress will be less susceptible. Where recommended the addition of Glyphosate will enhance knockdown and control of weeds. It also helps minimise the risk of resistant weeds occurring.

CROP SAFETY

DO NOT apply chlorsulfuron, metsulfuron-methyl or triasulfuron products in a tank mix with BENURON 750 WG Herbicide as a fallow or pre-crop treatment.

SPRAY PREPARATION

BENURON 750 WG Herbicide is a dry flowable formulation to be mixed with water and applied as a spray. Partially fill the spray tank with water. Measure the amount of BENURON 750 WG Herbicide required for the area to be sprayed. Add the correct amount of BENURON 750 WG Herbicide to the spray tank with the agitation system engaged. Top up to the correct volume with water. The material must be kept in suspension at all times by continuous agitation. In tank mixes, BENURON 750 WG Herbicide must be in suspension before adding the companion herbicide or surfactant/wetting agent.

USE OF SURFACTANT/WETTING AGENT

Always add non-ionic surfactant (1000 g/L – non-buffering type) at 100 mL/100 L (0.1% v/v) of final spray volume. When applying BENURON 750 WG Herbicide alone by air in addition to a non-ionic surfactant add a mineral spray oil at 1 L/100 L (1% v/v) of final spray volume.

GROUND SPRAYING

Use a boom spray properly calibrated to a constant speed and rate of delivery to ensure thorough coverage and a uniform spray pattern. Avoid overlapping and shut off spray booms while starting, turning, slowing or stopping. Apply a minimum of 50 L prepared spray/ha.

AERIAL SPRAYING

Apply a minimum of 20 L/ha water. Application in 30 L/ha will improve performance reliability. Avoid spraying in still conditions and in winds likely to cause drift onto adjacent sensitive crops or fallow areas likely to be planted to these crops - see Crop Options section. Turn off spray boom whilst passing over creeks and dams.

DO NOT apply when a temperature air inversion is likely to occur.

SPRAYER CLEANUP

To avoid subsequent injury to crops immediately after spraying thoroughly remove all traces of BENURON 750 WG Herbicide from mixing and spray equipment as follows:

1. Immediately after spraying, drain tank completely. Any contamination on the outside of the spraying equipment should be removed by washing with clean water.
2. Rinse inside of tank with clean water and flush through boom and hoses using at least one-tenth of the spray tank volume. Drain tank completely.
3. Half fill tank with clean water adding household ammonia to give a 1% solution (equivalent ratios include 1/3 litre household ammonia product, containing 9.5% ammonia) for each 100 litres of tank volume. Agitate, and then flush the boom and hoses with the cleansing solution. Top up with water making sure the tank is completely full and allow standing for 15 minutes with agitation engaged. Again flush the boom and hoses and drain tank completely.
4. Nozzles and screens should be removed and cleaned separately with ammonia solution at the same concentration as used for the sprayer.
5. Rinse the tank with clean water and flush through boom and hoses using at least one-tenth of the

spray tank volume. Drain tank completely.

6. DO NOT spray the tank rinsate onto sensitive crop or land intended for cropping with sensitive crop.

NOTE: IF not possible to drain the tank completely, step 3 must be repeated before going on to step 4.
CROP OPTIONS

Land previously treated with BENURON 750 WG Herbicide may be sown to any of the specified crops after the interval indicated in the following table:

Minimum Interval	Crops (Note 2)
3 days	Barley, Oats, Wheat
7 or 21 days (Note 1)	Maize, Mungbeans, Sorghum, Soybeans, Sunflowers

Note 1:

BENURON 750 WG Herbicide is broken down in soil, primarily by chemical hydrolysis, but to a lesser degree by microbial degradation. Breakdown is fastest in warm, wet acid soils and slower in cold, dry alkaline soils. For the above summer crops, if minimum soil temperatures at planting depth are less than or equal to 15°C for three consecutive days, then plant back intervals should be extended to 21 days.

Note 2:

As a herbicide resistance counteracting measure, **DO NOT** use a Group 2 Herbicide in any of these crops following the use of BENURON 750 WG Herbicide alone as a preceding fallow or pre-crop treatment. Tolerance of other crops (growth through to maturity) should be determined on a small scale before re-sowing into larger areas.