

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



# Genfarm Metolachlor 720 EC Herbicide



ACTIVE CONSTITUENT: 720g/L METOLACHLOR

GROUP	<b>K</b>	HERBICIDE
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Controls certain annual grasses and broadleaf weeds in certain crops as specified in the directions for use

**IMPORTANT: READ THE ATTACHED LEAFLET BEFORE USE**

CONTENTS: 20 – 1000L

Landmark Operations Limited  
Suite 2, Level 3, 64 Talavera Road,  
North Ryde,  
NSW, 2113  
Tel: (02) 9889 5400  
Product Support Tel: 1800 44 88 92

**STORAGE AND DISPOSAL**

This container can be recycled if it is clean, dry, free of visible residues and has the **drumMUSTER** logo visible. Triple or pressure rinse container for disposal. Dispose of rinsate by adding to the spray tank. Do not dispose of undiluted chemicals on site. 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 site. The cap should not be replaced but may be taken separately.

If not recycling, break, crush, or puncture and deliver empty packaging for appropriate disposal to an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500mm 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.

**For refillable containers:** Empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage.

**SAFETY DIRECTIONS**

Avoid contact with eyes and skin. Repeated exposure may cause allergic disorders. Sensitive workers should use protective clothing. 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 (Phone Australia: 13 11 26).

**MATERIAL SAFETY DATA SHEET:**

Additional information is listed in the Material Safety Data Sheet, which can be obtained from the supplier.

**CONDITIONS OF SALE**

The use of this product is beyond the control of Landmark Operations Limited. No warranty is expressed or implied regarding the suitability or efficiency for any purpose for which it is used by the buyer. Landmark Operations Limited. accepts no responsibility for any consequences resulting from the use of this product. Landmark Operations Limited will not be held liable for any loss, injury or damage arising from the sale, supply or use of this product, whether through negligence or otherwise. No responsibility will be accepted for any consequences whatsoever resulting from the use of this product.

**Batch No:**

**Date of Manufacture:**

**APVMA Approval No:** 59416/57160

In a Transport Emergency Dial <b>000</b> Police or Fire Brigade	<b>SPECIALIST ADVICE          IN EMERGENCY ONLY          1800 033 111          ALL HOURS AUSTRALIA WIDE</b>
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**Metolachlor 720 EC**  
**Herbicide**

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## Directions for Use

Crops	Weeds Controlled	State	Rate	Critical Comments
Barley, Oats	Suppression of Annual Ryegrass	NSW, ACT, Tas, SA, WA only	750 mL to 1 litre per ha	Apply to moist soil immediately after planting and before crop and weeds emerge. Use the lower rate on light soils. Application should be made to a moist seed bed and sufficient rain to thoroughly wet the top 3 to 4 cm of soil should occur within 10 days after spraying. Damage may occur if crop is sown too shallow (less than 4 cm). Damage can occur on light sandy soil types after heavy rain. <b>See General Instructions for use in zero-tillage systems.</b>
Broccoli, Brussels sprouts, Cabbages, Cauliflow- ers	Barnyard Grass, Blackberry Nightshade, Chickweed (suppression), Deadnettle, Fat-hen, Lovegrass, Pigeon Grass, Pigweed (suppression), Potato Weed, Shepherds Purse, Stinging Nettle, Summer Grass, Wireweed (suppression)	NSW, ACT, Vic, Qld, Tas, NT only	3 to 4 litres per ha	Apply immediately after transplanting. Sufficient irrigation to wet the top 3 to 4cm of soil should be applied within 24 hours. Use rates towards the higher end of the range where Blackberry Nightshade, Chickweed, Fat-hen, Lovegrass, Pigeon Grass, Pigweed, Potato Weed and Wireweed are the major problem. <b>See warning – Brassica crops</b>
	Crowsfoot Grass, Fierce Thornapple (suppression), Liverseed Grass, Winter Grass	NSW & ACT only		Apply immediately after transplanting. Sufficient irrigation to wet the top 3 to 4cm of soil should be applied within 24 hours. Use rates towards the higher end of the range where Apple of Peru, Common Sowthistle, Fierce Thornapple, Liverseed Grass, Redroot Amaranth, Twiggy Turnip and Nettleleaf Goosefoot are the major problems. <b>WARNING:</b> Qld, only stunting and reduced yield may occur in broccoli in red soils and light alluvial soils.
	Apple of Peru, Awnless Barnyard Grass, Fierce Thornapple (suppression) Liverseed Grass, Yellow Weed, Redroot Amaranth (suppression)	Qld only		<b>See Warning – Brassica crops</b>
	Annual Ryegrass, Common Cotula, Common Sowthistle (suppression), Crowsfoot Grass, Fiddle Dock, Italian Ryegrass, Liverseed Grass, Nettleleaf Goosefoot (suppression), Twiggy Turnip (suppression), Winter Grass.	Vic, Tas, WA only		
Broccoli, Brussels sprouts, Cabbages, Cauliflower and Chinese Cabbage	Barnyard Grass, Blackberry Nightshade, Chickweed (suppression), Deadnettle, Fat-hen, Lovegrass, Pigeon Grass, Pigweed (suppression), Potato Weed, Shepherds Purse, Stinging Nettle, Crab Grass, Wireweed (suppression), Winter Grass, Fiddle Dock, Goosefoot (suppression)	WA only	3 to 4 litres per ha	On soils of extremely low organic matter use the lower rate. Apply immediately after transplanting. Sufficient irrigation to wet the top 3 to 4cm of soil (but not greater than 25 mm irrigation) should be applied within 24 hours. Soil type permitting; use rates towards the higher end of the range where Blackberry Nightshade, Chickweed, Fat-hen, Lovegrass, Pigeon Grass, Pigweed, and Potato Weed are the major problem. <b>See warning – Brassica crops</b>

Canola	Toad Rush	NSW, ACT, SA, Vic, Tas, Qld	0.3 to 0.5 litres per ha	Apply at or immediately after planting and before crops and weeds emerge. Apply to moist soil; use rates towards the higher end of the range where longer residual control is required.
	Toad Rush	WA Only		Apply before crops and weeds emerge. Apply to moist soil. To avoid crop injury use rates towards the lower end of the range on light sandy soils.
Cotton	Barnyard Grass, Crowsfoot Grass, Liverseed Grass, Lovegrass, Pigeon Grass, Summer Grass, Wandering Jew	NSW, ACT, Qld only	2 litres per ha	<p>Pre-emergent. Apply before, at, or immediately after planting and before crops and weeds have germinated using a low volume boom sprayer applying 60 to 120 litres of mixture per hectare.</p> <p>Rain or irrigation is necessary within 10 days of spraying to thoroughly wet the top 3 to 4cm of soil. If rain does not occur or irrigation is unavailable incorporate chemical to a depth of 3 to 4cm. Use rates towards the higher end of the range on heavy soils or where a heavy grass population is expected.</p> <p>DO NOT throw untreated soil onto treated areas, as this will reduce weed control.</p> <p>DO NOT use on soils where the sand content exceeds 70%. Use lower rate where the sand content of the soil is within the range 50% to 70%.</p> <p><b>See Warning – Cotton</b></p>
Green Beans Navy Beans	Blackberry Nightshade, Common Sowthistle, Fat-hen, Potato Weed, Barnyard Grass, Crowsfoot Grass, Liverseed Grass, Lovegrass, Pigeon Grass, Summer Grass and suppression of Pigweed.	NSW, ACT, Qld, Vic, SA only	3 to 4 litres per ha	<p>Pre-emergent. Apply before, at or immediately after planting and before crops and weeds have germinated.</p> <p>Rain or irrigation is necessary within 10 days of spraying to thoroughly wet the top 3 to 4cm of soil. If rain does not occur or irrigation is unavailable incorporate chemical to a depth of 3 to 4cm.</p> <p>DO NOT throw untreated soil onto treated areas, as this will reduce weed control.</p>
	Powell's Amaranth	Tas only	4 litres per ha	<p>Pre-emergent. Apply before, at or immediately after planting and before crops and weeds have germinated</p> <p>For sufficient Amaranth control the Genfarm Metolachlor 720 EC Herbicide application should be followed by 1 L/ha BASAGRAN (2 leaf Amaranth) plus 2L/ha BASAGRAN (4 leaf Amaranth).</p> <p>Rain or irrigation is necessary within 10 days of spraying to thoroughly wet the top 3 to 4cm of soil. If rain does not occur or irrigation is unavailable incorporate chemical to a depth of 3 to 4cm.</p> <p>DO NOT throw untreated soil onto treated areas, as this will reduce weed control.</p>

Maize (not Waxy Maize) Sweet Corn	Barnyard Grass, Crowsfoot Grass, Liverseed Grass, Lovegrass, Pigeon Grass, Summer Grass, Wandering Jew.	NSW, ACT, Vic, Qld, SA, NT, Tas only	2 to 4 litres per ha	Pre-emergent. Apply before, at, or immediately after planting and before crops and weeds have germinated using a low volume boom sprayer applying 60 to 120 litres of mixture per hectare. Rain or irrigation is necessary within 10 days of spraying to thoroughly wet the top 3 to 4cm of soil. If rain does not occur or irrigation is unavailable incorporate chemical to a depth of 3 to 4cm. Use rates towards the higher end of the range on heavy soils or where a heavy grass population is expected. DO NOT throw untreated soil onto treated areas, as this will reduce weed control. DO NOT use on soils where the sand content exceeds 70%. Use lower rate where the sand content of the soil is within the range 50% to 70%.
	Blackberry Nightshade, Caltrop, Common Thornapple, Mintweed, Needle Burr, Noogoora Burr, Pigweed, Redroot Amaranth, Slim Amaranth		2 to 4 litres plus 2.5 litres of Flowable Atrazine per ha	
Pastures – Trikkala Sub-clover, Halfa white clover, Maral persian clover, Paradana Balansa clover, Redquin red clover, Phalaris and Cocksfoot.	Toad Rush	Vic, NSW, ACT, NT, SA, WA only	400 to 500 mL per ha	Apply at or immediately after planting and before pasture species and weeds emerge. Application should be made to a moist seedbed. Sufficient rain to thoroughly wet the top 3 to 4cm of soil should occur within 10 days after spraying. Use rates towards the higher end of the range in wet areas or when longer residual control is required. DO NOT use in soils where prolonged waterlogging is anticipated otherwise unacceptable crop retardation will occur. Avoid damage to pasture species by avoiding overlaps and double spraying in headlands where White, Persian and Balansa clovers are sown and if the 500 mL rate is being used.
Frontier Balansa clover,				

Peanuts	Barnyard Grass, Crowsfoot Grass, Liverseed Grass, Lovegrass, Pigeon Grass, Summer Grass, Wandering Jew.	Qld, NSW, ACT, NT only	2 to 4 litres per ha	Apply before pre-irrigation where soil crusting is likely. Apply before, at, or immediately after planting and before weeds germinate. Rain or irrigation is necessary within 10 days of spraying to thoroughly wet the top 3 to 4 cm of soil. If rain does not occur or irrigation is unavailable incorporate chemical to a depth of 3 to 4 cm. DO NOT throw untreated soil onto treated areas, as this will reduce weed control. Use rates towards the higher end of the range on heavy soils or where a heavy grass population is expected.
Soybeans Sunflowers		NSW, ACT, Vic, Qld, SA, NT only		
Sorghum treated with Concep II Sorghum Seed Safener	Barnyard Grass, Crowsfoot Grass, Liverseed Grass, Lovegrass, Pigeon Grass, Summer Grass, Wandering Jew	NSW, ACT, Qld, NT, only	2 to 4 litres per ha	Pre-emergent. Apply before, at or immediately after planting and before crops and weeds have germinated using a low volume boom sprayer applying 60 to 120 litres of mixture per hectare. DO NOT apply to sorghum seed not previously treated with Concep II Sorghum Seed Safener. Rain or irrigation is necessary within 10 days of spraying to thoroughly wet the top 3 to 4 cm of soil. If rain does not occur or irrigation is unavailable incorporate chemical to a depth of 3 to 4 cm. Use rates towards the higher end of the range on heavy soils or where a heavy grass population is expected. DO NOT throw untreated soil onto treated areas, as this will reduce weed control. Use the lower rate on sandy soils.
	Blackberry nightshade, Caltrop, Common Thornapple, Mintweed, Needle Burr, Noogoora Burr, Pigweed, Redroot Amaranth, Slim Amaranth		2 to 4 litres per ha plus 2.5 litres of flowable Atrazine	

Sugar cane (plant and ratoon)	Awnless Barnyard grass, Barnyard grass, Bellvine, Billygoat Weed (Blue Top), Blackberry Nightshade, Caltrop, Common Sowthistle (Milk thistle), Common Thornapple, Crowsfoot Grass, Green Summer Grass, Guinea Grass, Mexican Clover, Mintweed, Needle Burr, Passionfruit Vines, Pigeon Grass, Pigweed, Redroot Amaranth, Square weed, Star of Bethlehem, Summer Grass, Wild Rose	South-em Qld only (Bunda- berg South)	2.2 to 2.9 litres plus 2.7 to 3.6 litres Flowable Atrazine (500) or 1.5 to 2kg Atrazine 900WG	Apply as a pre- or post-emergent application to crop. Apply once per year only. Application should be made to a moist soil before weeds and grasses have germinated. If conditions remain dry for a period of 10 days after spraying, irrigation or a shallow cultivation (2.5 cm) may assist results. DO NOT throw untreated soil on to treated areas as this will reduce weed control. In Southern Queensland, use rates toward the higher end of the range on heavy soils where a high grass population is expected.  In Northern Queensland, application must be made to moist soil and rainfall or higher end of the range where high Green Summer Grass population is expected. Where broadleaf weeds and grasses have emerged and are in the 2 to 4 true leaf stage, knockdown herbicides such as Primatol*Z (2 L/ha), Flowable Diuron (500 g/L) at 1 L/ha or Genfarm paraquat 250 (1.2 to 1.6 L/ha), applied as a post directed spray, can be added. Where broadleaf weeds only have emerged and are at the 2 to 4 true leaf stage then a 2,4-D Amine 625 at 1.6 L/ha should be added. In all cases add a non-ionic surfactant. Follow all instructions and restrictions on the Atrazine Flowable and WG labels.
		Northern Qld only (Mackay North)	2.9 to 3.6 litres plus 3.6 to 4.5L litres Flowable Atrazine (500) or 2 to 2.5 kg Atrazine 900WG	
Sweet Potatoes	Black Pigweed, Redshank, Potato weed, Barnyard Grass, Crowsfoot Grass, Liverseed Grass, Lovegrasses, Pigeon Grass, Summer Grass, Suppression of Evening Primrose	NSW, ACT, Qld, Vic, NT, SA only	3 litres per ha	Pre-emergent. Apply immediately after transplanting before weeds have germinated. Sufficient irrigation to wet the soil through the weed zone should be applied within 24 hours. Further weed germination may occur following rehilling due to exposure of untreated soil.
Tobacco (transplant ed in field)	Barnyard Grass, Lovegrass, Pigeon Grass, Summer Grass, and suppression of Common Thornapple ( <i>Detura stramonium</i> ) and Nightshades ( <i>Solanum sarrachoides</i> and <i>S.gigrum</i> )	Vic, NSW only	3 litres per ha	Apply by low volume boom spray prior to transplanting and before weeds and grasses germinate. The seedbed should be fine and free of large clods. Thoroughly incorporate within 7 days of spraying using a rotary hoe or similar equipment set to work to a depth of 7.5cm. DO NOT use disc-cultivating implements. An even coverage of the herbicide is essential. The herbicide needs to be activated by moisture through to the top 3 to 4cm of soil at the time of application or within 4 days of incorporation. This can be achieved by applying to moist soil, irrigating soon after incorporation or irrigating immediately after transplanting. Avoid boom overlaps as double treatment may cause growth suppression. Temporary crop retardation may be observed when soil conditions remain dry after application or where black root rot may occur.



Wheat, Barley, Oats, Triticale	Toad Rush	Vic, NSW, ACT, SA, WA only	300 to 500mL per ha	Apply at or immediately after planting and before crop and weeds emerge. Application should be made to a moist seedbed and sufficient rain to thoroughly wet the top 3 to 4cm of soil should occur within 10 days after spraying. Use rates towards the higher end of the range in wet areas or when longer residual control is required or in situations where crop competition is minimal.  When mixed with Logran 714 apply pre-sowing and incorporate by sowing operation (for wheat only).
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**NOT TO BE USED FOR ANY PURPOSE, OR IN ANY MANNER, CONTRARY TO THIS LABEL UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION.**

#### WITHHOLDING PERIODS

**CANOLA:** DO NOT GRAZE TREATED FIELDS FOR 10 WEEKS AFTER APPLICATION.

**GREEN BEANS:** DO NOT HARVEST, GRAZE OR CUT FOR STOCK FOOD FOR 10 WEEKS AFTER APPLICATION.

**PASTURES:** DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 13 WEEKS AFTER APPLICATION.

**SWEET POTATOES:** DO NOT HARVEST, GRAZE OR CUT FOR STOCK FOOD FOR 23 WEEKS AFTER APPLICATION.

**BRUSSELS SPROUTS,  
BROCCOLI, CABBAGES,  
CAULIFLOWER AND**

**CHINESE CABBAGE:** DO NOT HARVEST, GRAZE OR CUT CROP RESIDUE OR FAILED CROPS FOR STOCK FOOD

**BARLEY, OATS:** DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 8 WEEKS AFTER APPLICATION

#### GENERAL INSTRUCTIONS

GROUP	<b>K</b>	HERBICIDE
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#### Resistant Weeds Warning

Genfarm Metolachlor 720 EC Herbicide is a member of the amide group of herbicides. The product has the diverse sites of action mode of action. For weed resistance management this is Group K herbicide.

Some naturally-occurring weed biotypes resistant to this product and other group K 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 K herbicides.

Since the occurrence of resistant weeds is difficult to detect prior to use, Landmark Operations Limited accepts no liability for any losses that may result from the failure of this product to control the resistant weeds.

Advice as to strategies and alternative treatments that can be used should be obtained from your local supplier, consultant, local Department of Agriculture, Primary Industries Department or a Landmark representative.

### Uses

The product is a short residual pre-emergent herbicide for the control of many important annual grasses and broadleaf weeds in the crops nominated. The product does not control the important broadleaf weeds in maize, sweet corn and Concep II treated sorghum, but when mixed with Flowable Atrazine control of many important annual weeds and grasses is obtained without the problem of carryover of herbicides affecting succeeding crops. The product acts mainly through shoot (coleoptile) absorption. Its effectiveness depends on the occurrence of rainfall or irrigation to move it down into the top 3 to 4cm of soil, where it must be present at the time of weed germination.

### Mixing

Add the required amount directly to the spray tank, fill with water and mix well.

### Compatibility

Genfarm Metolachlor 720 EC Herbicide is compatible with Prometryn Flowable Liquid Herbicide, Fluometuron 500 Flowable Herbicide, Prometryn/Fluometuron 500 Liquid Herbicide, Atrazine Flowable Herbicide, Genfarm Triasulfuron 750 Herbicide, Paraquat and Glyphosate Herbicide.

**WARNING** – Cotton: Heavy rain following an application of Genfarm Metolachlor 720 EC Herbicide, together with below average soil temperatures, can result in crop injury, due to the inability of the germinating plant being able to metabolise the herbicide. Genfarm Metolachlor 720 EC Herbicide, should not be used in situations where these conditions are likely to occur.

**WARNING** – Brassica crops: Crop retardation may occur where Genfarm Metolachlor 720 EC Herbicide, is used on soils that have a low organic matter content and which contain more than 60% of fine sand and silt and less than 5% clay in the top 30 cm. On these soil types, use rates of Genfarm Metolachlor 720 EC Herbicide, towards the lower end of the rate range and apply onto moist soil. Irrigation after application should be limited to no more than 25mm.

**Zero Tillage (Canola, Barley, Oats, Triticale, Wheat)** – When sowing use knife points and zero tillage and leaving a seeding slot. DO NOT apply post seeding slot before application. Alternatively apply Genfarm Metolachlor 720 EC Herbicide immediately before sowing.

DO NOT USE ON SOILS CONTAINING LESS THAN 5% CLAY IN THE TOP 30 cm.  
DO NOT USE MORE THAN ONCE PER YEAR.

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

DO NOT plant crops other than maize, sweet corn, tobacco, cotton, soybeans, sunflowers, peanuts, broccoli, Brussels sprouts, cabbages, cauliflowers or Concep II treated sorghum within six months of application of Genfarm Metolachlor 720 EC Herbicide.

### PROTECTION OF LIVESTOCK

Do not graze or cut sweet potato leaves for stock food.

### PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

DO NOT contaminate streams, rivers or waterways with the chemical or used containers.

### Re-entry Period

DO NOT enter treated area until spray has dried.

## STORAGE AND DISPOSAL

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