

# CAUTION

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



## S-METOLACHLOR 960 EC Herbicide

ACTIVE CONSTITUENT: 960 g/L S-METOLACHLOR

**GROUP K HERBICIDE**

Controls certain annual grasses and broadleaf weeds in certain crops as specified in the Directions for Use.

**IMPORTANT: READ THIS LEAFLET BEFORE USING THIS PRODUCT**

**4 FARMERS AUSTRALIA PTY LTD**

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Batch Number:

Date of Manufacture:

APVMA Approval No: 81731/107943

### DIRECTIONS FOR USE

#### RESTRAINTS

DO NOT apply to waterlogged soils.

DO NOT apply if heavy rains or storms that are likely to cause runoff are forecast within 2 days of application.

DO NOT irrigate to the point of runoff for at least 2 days after application.

Crops	Weeds Controlled	State	Rate	Critical Comments
<b>Broccoli, Brussels Sprouts, Cabbages, Cauliflowers</b>	Barnyard Grass, Blackberry, Nightshade, Chickweed (suppression), Deadnettle, Fat Hen, Love Grass, Pigeon Grass, Pigweed (suppression), Potato Weed, Shepherd's Purse, Stinging Nettle, Summer Grass, Wireweed (suppression)	Qld, NSW, Vic, Tas, NT only	1.5 to 2L/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, Love Grass, Pigeon Grass, Pigweed, Potato Weed and Wireweed are the major problem. <b>See General Instructions for Warning – Brassica Crops.</b>
	Crowsfoot Grass, Fierce Thornapple (suppression), Liverseed Grass, Winter Grass	NSW 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, Twigg Turnip and Nettleleaf Goosefoot are the major problems. <b>WARNING: Qld only:</b> Stunting and reduced yield may occur in Broccoli in red soils and light alluvial soils. <b>See General Instructions for Warning – Brassica Crops.</b>
	Apple of Peru, Awnless Barnyard Grass, Fierce Thornapple (suppression), Liverseed Grass, Yellow Weed, Redroot Amaranth (suppression).	Qld only		
	Annual Ryegrass, Common Cotula, Common Sowthistle (suppression), Crowsfoot Grass, Fiddle Dock, Italian Ryegrass, Liverseed Grass, Nettleleaf Goosefoot (suppression), Twigg Turnip (suppression), Winter Grass.	Vic, Tas only		
<b>Canola</b>	Toad Rush	All States	0.15 to 0.25 L/ha	Apply at or immediately after planting and before crops and weeds emerge. Apply to moist soil. Use rates toward the higher end of the range where longer residual control is required. <b>See General Instructions for use in Zero-Tillage Systems.</b>
<b>Cotton</b>	Barnyard Grass, Crowsfoot Grass, Liverseed Grass, Love Grass, Pigeon Grass, Summer Grass, Wandering Jew	Qld, NSW, WA only	1L/ha	<b>Pre-emergent:</b> Apply before, at or immediately after planting and before crops and weeds have germinated using a low volume boom sprayer applying 60 to 120 L mixture/ha. 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%. <b>See General Instructions for Warning – Cotton.</b>
<b>Green Beans, Navy Beans</b>	Blackberry, Nightshade, Common Sowthistle, Fat Hen, Potato Weed, Barnyard Grass, Crowsfoot Grass, Liverseed Grass, Love Grass, Pigeon Grass, Summer Grass and suppression of Pigweed	Qld, NSW, Vic, SA only	1.5 to 2L/ha	<b>Pre-emergent:</b> Apply before, at or immediately after planting and before crops and weeds have germinated. 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. DO NOT throw untreated soil onto treated areas as this will reduce weed control.

Crops	Weeds Controlled	State	Rate	Critical Comments
<b>Green Beans, Navy Beans</b>  continued	Powell's Amaranth	Tas only	2L/ha	<b>Pre-emergent:</b> Apply before, at or immediately after planting and before crops and weeds have germinated. For sufficient Amaranth control, the 4Farmers S-Metolachlor 960 EC application should be followed by 1 L/ha Basagran* (2 leaf Amaranth) or 2L/ha Basagran (4 leaf Amaranth). 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. DO NOT throw untreated soil onto treated areas as this will reduce weed control.
<b>Maize Sweet Corn</b>	Barnyard Grass, Crowsfoot Grass, Liverseed Grass, Love Grass, Pigeon Grass, Summer Grass, Wandering Jew	All States	1 to 2L/ha	<b>Pre-emergent:</b> Apply before, at or immediately after planting and before crops and weeds have germinated using a low volume boom sprayer applying 60 to 120L mixture/ha. 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		1 to 2L plus 2.5L of Atrazine (500g/L)/ha	
<b>Pastures</b> Trikkala Sub- Clover, Haifa White Clover, Maral Persian Clover, Paradana Balansa Clover, Redquin Red Clover, Phalaris and Cocksfoot	Toad Rush	NSW, Vic, SA, Tas, WA, NT, only	200 to 250mL/ha	Apply at or immediately after planting and before pasture species and weeds emerge. Application should be made to a moist seed bed. 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 250mL rate is being used.
<b>Peanuts</b>	Barnyard Grass, Crowsfoot Grass, Liverseed Grass, Love Grass, Pigeon Grass, Summer Grass, Wandering Jew	Qld, NSW, WA, NT only	1 to 2L/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 4cm of soil. If rain does not occur or irrigation is unavailable, incorporate chemical to a depth of 3 to 4cm. DO NOT throw untreated soil onto treated areas as this will reduce weed control. Use rates toward the higher end of the range on heavy soils or where a heavy grass population is expected.
<b>Soybeans, Sunflowers</b>		All States		
		Qld, NSW, WA, NT only	1 to 2L/ha	<b>Pre-emergent:</b> Apply before, at or immediately after planting and before crops and weeds have germinated using a low volume boom sprayer applying 60 to 120L mixture/ha. 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 4cm of soil. If rain does not occur or irrigation is unavailable, incorporate chemical to a depth of 3 to 4cm. Use rates toward 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.
<b>Sorghum</b> treated with Concep II® Sorghum Seed Safener	Blackberry, Nightshade, Caltrop, Common Thornapple, Mintweed, Needle Burr, Noogoora Burr, Pigweed, Redroot Amaranth, Slim Amaranth	Qld, NSW, WA, NT only	1 to 2L plus 2.5L Atrazine (500g/L)/ha	
<b>Sugar Cane</b> 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, Liverseed Grass, Mexican Clover, Mintweed, Needle Burr, Passionfruit vines, Pigeon Grass, Pigweed, Redroot Amaranth, Square Weed, Star of Bethlehem, Summer Grass, Wild Rose	Southern Qld only (Bundaberg South)	1.1 to 1.45L plus 2.7 to 3.6L Flowable Atrazine (500g/L) or 1.5 to 2kg Atrazine (900g/kg)	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 (2.5cm) may assist results. DO NOT throw untreated soil onto 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 irrigation should occur within 24 hours of application. Use rates toward the 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 Ametryn (500g/L) (2L/ha), a flowable diuron (500g/L) at 1L/ha or Paraquat 250 (1L/ha), applied as a post directed spray, can be added. DIURON TANK MIXES: Read and follow all label directions including restraints, spray drift restraints, mandatory no-spray zones, critical comments, withholding periods, regional use restrictions and safety directions for the tank mix products.

## Directions For Use continued

Crops	Weeds Controlled	State	Rate	Critical Comments
<b>Sugar Cane</b> plant and ratoon	Continued from previous page	Northern Qld only (Mackay North)	1.45 to 1.8L plus 3.6 to 4.5L Atrazine (500g/L) or 2 to 2.5kg Atrazine	Where broadleaf weeds only have emerged and are at the 2 to 4 true leaf stage then a 500g/L 2,4-D amine at 2L/ ha should be added. In all cases add a non-ionic surfactant. Follow all instructions and restrictions on the Atrazine labels.
<b>Sweet Potatoes</b>	Black Pigweed, Red Shank, Potato Weed, Barnyard Grass, Crowfoot Grass, Liverseed Grass, Love Grass, Pigeon Grass, Summer Grass, suppression of Evening Primrose	Qld, NSW, Vic, SA, NT only	1.5L/ha	<b>Pre-emergent:</b> 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 rehillng due to exposure of untreated soil.
<b>Tobacco</b> transplanted in field	Barnyard Grass, Love Grass, Pigeon Grass, Summer Grass and suppression of Common Thornapple ( <i>Datura stramonium</i> ) and Nightshades ( <i>Solanum</i> <i>sarrachoides</i> and <i>S. gigrum</i> )	NSW, Vic only	1.5L/ha	Apply by low volume boom spray prior to transplanting and before weeds and grasses germinate. The seed bed 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.
<b>Barley, Oats</b>	Suppression of Annual Ryegrass	NSW, Vic, Tas, SA, WA, ACT only	375 to 500mL/ha	Apply to moist soils 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 4cm of soil should occur within 10 days after spraying.  Damage may occur if crop is sown too shallow (less than 4cm). Damage can occur on light sandy soil types after heavy rain.  <b>See General Instructions for use in Zero Tillage Systems.</b>
<b>Wheat, Barley, Oats, Triticale</b>	Toad Rush	NSW, Vic, Tas, SA, WA, ACT only	150 to 250mL/ha	Apply at or immediately after planting and before crop and weeds emerge. Application should be made to a moist seed bed and sufficient rain to thoroughly wet the top 3 to 4cm of soil should occur within 10 days after spraying. Use rates toward 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 Triasulfuron 750, apply pre-sowing and incorporate by sowing operation (for wheat only).  <b>See General Instructions for use in Zero Tillage Systems.</b>

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

## WITHHOLDING PERIODS

### HARVEST

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

**Green Beans: DO NOT HARVEST BEANS FOR 8 WEEKS AFTER APPLICATION. DO NOT GRAZE OR  
CUT 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.**

**Wheat, Barley, Oats, Triticale: DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 8 WEEKS AFTER  
APPLICATION.**

**For all other crops: NOT REQUIRED WHEN USED AS DIRECTED.**

### GRAZING

**For all other crops (except Sweet Potatoes): DO NOT GRAZE OR CUT FOR STOCK FOOD FOR  
13 WEEKS AFTER APPLICATION**

## GENERAL INSTRUCTIONS

### 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 Atrazine 500g/L, 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.

### APPLICATION

**Ground Application:** Apply in a minimum of 60L/ha of water DO NOT apply by aircraft

### MIXING

Fill the spray tank to one quarter full. Then add 4Farmers S-Metolachlor 960 EC while adding water to make up the final spray volume. Pour 4Farmers S-Metolachlor 960 EC into the stream of incoming water. Good agitation at the time 4Farmers S-Metolachlor 960 EC is added to the tank will ensure good mixing. When Tank Mixing: wettable powder or water dispersible granule formulations should be added to the tank first, followed by suspension concentrates (flowables), water soluble salts then 4Farmers S-Metolachlor 960 EC or other emulsifiable concentrate formulations. Maintain thorough agitation during mixing and application. Agitate tank mixes vigorously if allowed to stand. Note: Tank mix spray solution should NOT be left standing in the vat overnight.

## COMPATIBILITY

4Farmers S-Metolachlor 960 EC is compatible with Flowable Atrazine 500g/L, Atrazine Granules 900 WG, Triasulfuron, Basagran\*, Paraquat 250, and Glyphosate.

**WARNING – Cotton:** DO NOT use when planting into dry soil or soil with marginal moisture. Under dry planting conditions heavy rain or flood irrigation soon after planting, together with below average soil temperatures, can result in crop injury due to the inability of the germinating seedling to metabolise above normal amounts of the herbicide that may accumulate in the root zone as a result of accelerated capillary movement. 4Farmers S-Metolachlor 960 EC should not be used in situations where these conditions are likely to occur.

**WARNING – Brassica Crops:** Crop retardation may occur where 4Farmers S-Metolachlor 960 EC is used on soils that have a low organic matter content and which contain more than 60% of fine sand and silt. On these soil types, use rates of 4Farmers S-Metolachlor 960 EC towards the lower end of the rate range and apply onto moist soil. Irrigation after application should be limited to no more than 25mm. DO NOT use more than once per year.

**Zero Tillage (Canola, Barley, Oats, Wheat, Triticale):** When sowing using knife points and zero tillage, and leaving a seeding slot, DO NOT apply post-seeding unless harrows (or similar) have filled-in the seeding slot before application. Alternatively, apply 4Farmers S-Metolachlor 960 EC immediately before seeding.

## RESISTANT WEEDS WARNING

GROUP	<b>K</b>	HERBICIDE
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4Farmers S-Metolachlor 960 EC Herbicide is a member of the amide group of herbicides. The product has the herbicides with diverse sites of action mode of action.

For weed resistance management, the product is a Group K herbicide. Some naturally occurring weed biotypes resistant to the 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, 4Farmers Australia Pty Ltd 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 4Farmers representative.

## PRECAUTION

### Re-entry Period

DO NOT enter treated areas without protective clothing until spray has dried.

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

DO NOT apply under weather conditions, or from spray equipment, that may cause spray to drift onto nearby susceptible plants/crops, cropping lands or pastures.

DO NOT plant crops other than broccoli, brussels sprouts, cabbages, cauliflowers, cotton, maize, peanuts, soybeans, sunflowers, sweet corn, tobacco or Concep II treated sorghum within 6 months of application of 4Farmers S-Metolachlor 960 EC.

## PROTECTION OF LIVESTOCK

DO NOT graze or cut Sweet Potato leaves for stock food.

## PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

**TOXIC TO FISH.** DO NOT contaminate streams, rivers or waterways with the chemical or used containers. DO NOT apply under meteorological conditions or from spraying equipment which could be expected to cause spray to drift onto adjacent areas, particularly wetlands, waterbodies or watercourses.

## STORAGE AND DISPOSAL:

Store in the closed, original container in a dry, cool, well ventilated area out of direct sunlight.

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. 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 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. Do not burn empty containers or product.

### Refillable containers

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

## SAFETY DIRECTIONS:

Will damage eyes. Repeated exposure may cause allergic disorders. Sensitive workers should use protective clothing. Avoid contact with eyes. When opening the container and preparing spray wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves and goggles. When using the prepared spray wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves and face shield or goggles. If product in eyes, wash it out immediately with water. Wash hands after use. After each days use, wash gloves, face shield or goggles and contaminated clothing.

## FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 13 11 26.

## SAFETY DATA SHEET

For further information please refer to the Safety Data Sheet. For a copy visit our website at [www.4farmers.com.au](http://www.4farmers.com.au)

## CONDITIONS OF SALE

The use of 4Farmers S-Metolachlor 960 EC Herbicide, being beyond the control of the manufacturer, no warranty expressed or implied is given by 4Farmers Australia Pty Ltd regarding its suitability, fitness or efficacy for any purpose for which it is used by the buyer, whether in accordance with the directions or not and 4Farmers Australia Pty Ltd accepts no responsibility for any consequences whatsoever resulting from the use of this product.

<b>In a Transport Emergency Dial 000 Police or Fire Brigade</b>	<b>Special Poisons Advice: 13 11 26</b>
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