

POISON

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

FARMALINX

Metralan



HERBICIDE

ACTIVE CONSTITUENT: 750 g/kg METRIBUZIN

GROUP **C** HERBICIDE

For selective weed control in cereals, pastures and other crops, including vegetables, as indicated in the Directions for Use table.

IMPORTANT: READ THE ATTACHED LEAFLET BEFORE OPENING OR USING THIS PRODUCT.

farmalinx

FARMALINX Pty Ltd ABN 95 134 353 245
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CONTENTS
2.5 kg

FARMALINX

Metralan

HERBICIDE

STORAGE AND DISPOSAL

Store in the closed, original container in a dry, cool well-ventilated area. DO NOT store for prolonged periods in direct sunlight. Keep from contact with fertilizers, insecticides, fungicides and seeds. Triple or preferably pressure rinse container 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 bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

SAFETY DIRECTIONS

Harmful if swallowed. May irritate eyes and skin. Avoid contact with eyes and skin. DO NOT inhale dust or spray mist. Wash hands after use.

FIRST AID

If poisoning occurs, contact a Doctor or Poisons Information Centre.
Phone Australia 131 126.

MATERIAL SAFETY DATA SHEET

Additional information is listed in the material safety data sheet (MSDS). A material safety data sheet for FARMALINX Metralan Herbicide is available from FARMALINX Pty Ltd on request. Call Customer Service on 02 8338 9473.

NOTICE

Seller warrants that the product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use. No warranty (other than non-excludable statutory warranties) of merchantability or fitness for a particular purpose, express or implied, extends to the use of the product contrary to label instructions, or under off-label permits not endorsed by FARMALINX Pty Ltd or under abnormal conditions. FARMALINX Pty Ltd accepts no liability for any loss or damage arising from incorrect storage, handling or use.

APVMA Approval No: 64696/2.5-10kg/1209

	IN A TRANSPORT EMERGENCY DIAL 000 POLICE OR FIRE BRIGADE
	SPECIALIST ADVICE IN AN EMERGENCY ONLY 1800 024 973 ALL HOURS – AUSTRALIA WIDE

Barcode

Batch No.
Date of Manufacture



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FARMALINX

Metralan

HERBICIDE

DIRECTIONS FOR USE:**RESTRAINTS:**

DO NOT apply to crops that are stressed by any cause (such as severe weather conditions, waterlogging, drought, excessive soil acidity or alkalinity, poor nutrient status, disease, nematode or insect damage) as crop injury may result

Wheat: For pre-emergent applications use **ONLY** on 'Recognised Metribuzin Tolerant Varieties' such as Blade and EGA Eagle Rock. Damage may and will occur on non tolerant varieties or on varieties not claimed to have metribuzin tolerance.

Barley: **DO NOT** apply to crops grown on sandy soils or soils low in organic matter.

Peas: **DO NOT** apply to Laura, Pennant or White Brunswick

(Field & Green) varieties as phytotoxicity may occur.

DO NOT apply any later than the one node stage to Alma and Dinkum peas.

DO NOT spray pea crops in soils or areas where collar or stem rot is likely to occur.

Potatoes: **DO NOT** apply to crops grown on sandy soils as injury to the crops may result, appearing as chlorosis or minor necrosis.

DO NOT apply to Kurell potatoes as phytotoxicity may occur.

DO NOT apply to Alantic and Ponitiac varieties WA only.

DO NOT use on dry-grown, non-irrigated crops.

Soybeans: **DO NOT** use on varieties Cannapolis, Hill and Semstar as crop injury may occur.

DO NOT use on soils with a calcareous surface layer as crop injury may occur.

DO NOT apply over atrazine residues as crop injury may result.

DO NOT apply in combination with soil applied organophosphate insecticides as crop injury may result.

DO NOT apply to soils with less than 0.5% organic matter as crop injury may result.

DO NOT apply to dryland soybeans.

DO NOT apply to soils of pH greater than 8 that are prone to water-logging as crop injury may occur.

Lupins: **DO NOT** apply to varieties Danja, Kiev Mutant or Albus Lupins.

DO NOT apply to Lupin crops that have received 2.5 litres or more of Simazine pre-seeding, or lupin crops that are showing symptoms of Simazine or Atrazine damage.

Crop & Situation	Weeds Controlled	State	Rate/ha	Critical Comments
Barley	Capeweed, Catsear, Charlock, Chickweed, Common Cotula, Corn Gromwell (Sheepweed, White Ironweed), Corn Spurry, Creeping Speedwell, Crown Beard (Dogweed), Deadnettle (Henbit Lamium spp.) Dock seedlings, Fat Hen, Field Madder, Fumitory, Hares Ear (Treacle Mustard), Heliotrope, Hogweed (Wireweed), Horehound, Indian Hedge Mustard, Lesser Swinecress, Mouse-ear Chickweed, Mountain Sorrel, (Purple Calandrinia), Rough Poppy, Scarlet Pimpernel, Scrub Nettle (Stinging Nettle), Shepherds Purse, Sorrel seedlings, Sowthistle, Spiny Emex (Doublegee, Threecornered Jack(s)), Storksbill, Toad Rush, Wild Radish, Wild Turnip, Winter Grass, Yellow Burrweed	Vic & Tas only	180g (Light sandy soils, i.e., sandy loams to loamy sands)	Apply to moist soils while weeds are young and actively growing and barley plants are at the 5-leaf stage. DO NOT use on Barley grown on alkaline light sandy soils with pH over 7. DO NOT use on Barley grown on light sandy soils (Tas).
	Buxbaum's Speedwell, Powell's Amaranth, Stagger weed, Sun Spurge, Great Brome	Tas only	280g (Medium soils, loams, silt plus clay 40-60%) 380g (Heavy soils, clay loams, silt plus clay over 60%)	

Crop & Situation	Weeds Controlled	State	Rate/ha	Critical Comments
Barley (all varieties excluding Morrell)	Capeweed, Common Cotula, Doublegee, Fumitory, Indian Hedge Mustard, Toadrush, Wild Radish, Wild Turnip, Wireweed.	WA only (sandy-sandy loam soils)	135-140g plus Trifluralin 480 at 1L/ha and incorporated by sowing (IBS)	DO NOT use for Morrell Barley. Use the lower rate for lighter soil and increase for loam soils. Best results in moist soils. Sow below herbicide depth in high weed burdens (>100/m) there may be reduced efficacy. Crop safety is improved and weed control more reliable when IBS and trailing harrows are used. Ensure Metralan Herbicide is fully dispersed in the spray tank prior to the Trifluralin 480 addition. Refer to the application section of this and the Trifluralin 480 label for complete instructions on the product use.
	Brome grass (<i>Bromus diandrus</i> & <i>B. rigidus</i>)			
	Annual Ryegrass, Barley grass			
Chick Peas, Faba Beans, Lentils, Vetch	Refer to the Barley section	SA, Vic & WA only	180g Light soils (light sand to light sandy loams) 280g Medium soils (loams, silt plus clay 40-60%) 380g Heavy soils (clay loams, silt plus clay over 60%)	Crop: ONLY apply post - sowing, pre-emergence at least 5 cm deep. DO NOT apply post-emergence as crop injury will occur. Weeds: Weeds should be from pre-emergence to 3-leaf stage except Wireweed (Hogweed), which should not be beyond the cotyledon stage. Best results for grass and Wireweed control are obtained when rain or irrigation follows within a few days of spraying.
Lupins	Capeweed, Doublegee, Wild Radish	WA only	100-150g plus 100 mL Difen Options Selective Herbicide	For use on varieties Gunurru, Meritt, Myallie and Kayla only. DO NOT use on Danja, Kiev mutant or Albus lupins. Suppression of larger Doublegee only. Wild Radish weed size up to 250mm only. Apply to the actively growing lupins from the 3-4 leaf stage onwards. Use higher rates for heavy weed burden and larger weed size. Apply before weeds are covered by crop canopy. DO NOT apply wetting agents or spay oils with this mixture. Some transient leaf burn may occur after application, but this will not affect yield. Best results are obtained if good soil moisture exists at, and is received soon after application. Results may be less effective south of the Great Eastern Highway. Refer to critical comments section on the Difen Options Selective Herbicide label.
Peas (Field and Green) (not Snow Peas)	Refer to Barley section plus: Buchan Weed, Ball Mustard, Fog Grass (SA only), Dwarf Nettle (Tas only) Suppression only: Sub clover and Docks (Broadleaved Dock Tas only), Wild Oats	NSW, Vic, SA & Tas only	180g (Light sandy soils, i.e. Mallee soils) 280g (Medium soils - loams, silt plus clay 40-60%) 380g (Heavy soils, clay loams, silt plus clay 60%) 470g (Koo-wee-rup swamp and volcanic soils)	Crop: Sow crop 3-4cm deep. Apply after rain when crop is pre-emergence to 3- node stage. For post-sowing pre-emergence application allow soil to settle for 2-3 days after sowing before spaying. For postemergence apply to moist soil within 6 weeks of sowing while weeds are young and actively growing, DO NOT spray crops affected with collar or stem rot. Weeds: Weeds should be from preemergence to 3-leaf stage except Wireweed (Hogweed), which should not be beyond the cotyledon stage. Best results for grass and Wireweed control are obtained when rain or irrigation follows within a few days of spraying.

Crop & Situation	Weeds Controlled	State	Rate/ha	Critical Comments
Peas (Field and Green) (not Snow Peas) continued	Refer to Barley section plus: Buchan Weed, Ball Mustard, Fog Grass (SA only), Dwarf Nettle (Tas only)	Qld only	470g	Apply to medium soils
			700g	Apply to soils high in clay or organic matter content when grass weeds are a problem.
Green Peas (post - emergence) (not Snow Peas)	Suppression only: Sub clover and Docks (Broadleaved Dock – T as only), Wild Oats	WA only	370 - 470g	Refer to Critical Comments for Peas (Field and Green)
Potatoes		ACT, NSW, Vic , SA, Tas & WA only	470g	Apply after rain or irrigation when crop has no more than 6 leaves or is no more than 10 cm high (many plants may be smaller). CROPS HILLED OR MOLDED UP - Spray when weed seedlings have emerged. Apply 1-4 weeks later as soon as weed seedlings have emerged. If surface crusting is not a problem no further cultivation should be necessary. CROPS NOT HILLED AT OR SOON AFTER PLANTING - Spray when weeds seedling have emerged. No cultivation should be necessary until crop is ready for final hilling. Additional cultivation may be necessary when surface crusting is a problem.
			700g	Where summer grasses are a problem.
		Vic, Bellarine Peninsula only	280 - 370g	Apply to winter crops on light soils only.
		Qld only (Winter crop)	470g	Apply at first emergence of potatoes to control broadleaf weeds.
	South Qld only (Summer crop)	470g - 950g	Where summer grasses such as <i>Echinochloa crus galli</i> , <i>Eleusine</i> , <i>Digitaria</i> and <i>Panicum spp.</i> are a problem.	
	Atherton Tablelands (Qld only)	950g	Apply to summer crops at first emergence of potatoes to control broadleaved weeds and more troublesome grasses such as <i>Eleusine</i> , <i>Digitaria</i> and <i>Panicum spp.</i>	
Irrigated Soybeans	Apple of Peru, Cobbler's Pegs, Pigweed, Noogoora Burr, Common Thornapple, Summer Grass, Caltrop	ACT, NSW, NT only	500g	Apply pre-plant incorporated. Where grass weeds other than summer grass are a problem apply in combination with recommended rates of Trifluralin 480. (Refer to Trifluralin 480 label for directions for use and incorporation techniques). Use only on soils classified as silty clay-heavy clay.
Irrigated Soybeans (Variety Davis only)	Refer to weeds listed for soybeans plus Anoda weed, Awnless Barnyard grass. Suppression only of Bellvine	Qld, NT only	750g	
Tomatoes Inter-row spaces of furrow irrigated tomatoes	Refer to Peas section plus: Barnyard grass, Summer grass, Crowsfoot grass, Blackberry Nightshade, Pigweed, Black Pigweed, Bull's Head, Green Summer Grass	Qld, NT only	950g or 9.5g/100 m of row	Apply in a 1 metre band centered on the interrow either during or shortly after the formation of the final furrow. Apply to soil moist at the surface. DO NOT exceed spraying pressures of 200 kPa as excessive drift will occur.

Crop & Situation	Weeds Controlled	State	Rate/ha	Critical Comments
Wheat (Recognised Metribuzin tolerant varieties only eg Blade & Eagle Rock) Pre-plant, incorporated by sowing application	Capeweed, Common Cotula, Doublegee (Three Cornered Jack), Fumitory, Indian Hedge Mustard, Toad Rush, Wild Turnip, Wild Radish, Wireweed	WA (Great northern region only) sandy-sandy loam soils	200g and incorporated by sowing (IBS)	Metralan Herbicide has increased crop safety and gives more reliable weed control when incorporated by sowing and trailing harrows. Apply to moist soil for best efficacy. Reduced grass control may occur under high weed burdens (>100/m ²). To achieve good control of Annual Ryegrass and Barley grass add Trifluralin 480 at 1L/ha.
	Suppression of Brome Grass (<i>Bromus diandrus</i> and <i>B. rigidus</i>) Suppression of Annual Ryegrass, Barley Grass (refer to critical comments)		200g/ha plus Trifluralin 480 at 1L/ha and incorporated by sowing (IBS)	Ensure Metralan Herbicide is fully dispersed in the boom spray tank prior to the addition of Trifluralin 480. Refer to the application section of this and the Trifluralin label for complete instructions on product use.
Wheat and Barley	Toad Rush	Vic, ACT, NSW, SA only	100g	Toad rush should be sprayed at the 2-4 leaf stage for optimum control.
Oats		Vic only		Spray when soil moisture is plentiful and soil is moist to the surface. Take advantage of dew on the soil surface.
White Lupins	Buchan Weed, Capeweed, Charlock, Chickweed, Deadnettle (<i>Lamium spp.</i>), Fat Hen, Fumitory (Common and Wall Fumitory - Tas), Wireweed (Hogweed), Lesser Swinncress, Purple Calandrinia, Scarlet Pimpernel, Spiny Emex, Corn Spurry (Spurry -Tas), Stinging Nettle (Dwarf Nettle -Tas), Toad Rush, Winter grass, Heliotrope, Wild Oats, Wild Turnip, Wild Radish. Suppression only: Sub clover and Docks (Broadleaved Dock-Tas)	Tas only	400g	Spring application – Apply after sowing but before crop emerges.

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

WITHHOLDING PERIOD
TOMATOES: DO NOT APPLY LATER THAN 21 DAYS BEFORE HARVEST.
BARLEY: DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 14 DAYS AFTER APPLICATION.
OTHER CROPS: NOT REQUIRED IF USED AS DIRECTED.

GENERAL INSTRUCTIONS

FARMALINX Metralan Herbicide is non-corrosive to equipment, nonflammable and non-volatile. The degree of weed control and duration of effect will vary with the amount of herbicide applied, soil texture, rainfall and other conditions.

RESISTANT WEEDS WARNING

GROUP C HERBICIDE

FARMALINX Metralan Herbicide is a member of the Triazines group of herbicides. Metralan Herbicide has the inhibitors of photosynthesis at photosystem II mode of action. For weed resistance management Metralan Herbicide is a Group C Herbicide. Some naturally- occurring weed biotypes resistant to Metralan Herbicide and other Group C Herbicides may exist through normal genetic variability in any weed population. The resistant individuals can eventually dominate the weed population if these herbicides used repeatedly. These resistant weeds will not be controlled by Metralan Herbicide or other Group C Herbicides.

Since the occurrence of resistant weeds is difficult to detect prior to use, FARMALINX Pty Ltd accepts no liability for any losses that may result from the failure of Metralan Herbicide to control resistant weeds. Large numbers of healthy surviving weeds can be an indication that resistance is developing. Efforts should be made to prevent seed set of the survivors. DO NOT make more than one application of a Group C Herbicide to a crop in the same season, either pre-sowing incorporated by sowing or post crop and weed emergence. If the user suspects that Group C Herbicide resistant weeds are present, Metralan Herbicide or other Group C 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 Primary Industries.

MIXING AND APPLICATION COMPATIBILITY

Metralan Herbicide is compatible with the herbicides chlorsulfuron, metsulfuron, glyphosate, pendimethalin, propargite, Difen Options Selective Herbicide and Trifluralin 480.

MIXING

General:
Metralan Herbicide is to be mixed with water and applied as a spray. Before spraying calibrate equipment to determine the quantity of water necessary to uniformly cover the measured area to be treated. Partially fill the tank with water. Measure the amount of herbicide required for the area to be sprayed, adding this amount of Metralan 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, Metralan Herbicide must be in suspension before adding the companion herbicide or liquid fertiliser.

Pre-planting Incorporation Treatment:

Metralan Herbicide plus Trifluralin 480

Add Metralan Herbicide to water in spray tank with agitator running as above. Maintain agitation then add Trifluralin 480 at the recommended rate (Refer to Trifluralin 480 label).

APPLICATION

General:

Best results are obtained if treatment is made to moist soil and moisture is supplied by rainfall or sprinkler irrigation (6-12mm) within 2 weeks after application. If heavy rains occur soon after application, injury to the crop may result.

Aerial Application- (Qld only):

Peas-apply in a minimum of 20 litres water per hectare.
Potatoes- apply in a minimum of 50 litres water per hectare. Avoid overlapping of spray swath, Avoid spraying in still conditions and in wind likely to cause drift.

Pre-emergence and Post-emergence (To crop):

Metralan Herbicide should not be applied when weeds are in the young seedling stage (no more than 3 true leaves). Under dry conditions there is no root uptake of Metralan Herbicide and results against grass weeds and Wireweed (Hogweed) will be poor. Except for small areas, use fixed boom power sprayers set at 200-300kPa (for tomatoes do not exceed 200kPa) and fitted with fan nozzles. Apply a minimum of 80L-100L prepared spray/ha. Openings in screens should be equal to or larger than 50 mesh. Agitate by mechanical or hydraulic means in spray tank. When spraying avoid overlapping. Shut off spray booms whilst starting turning, slowing or stopping otherwise crop injury may result.

Pre-plant incorporated - Soybeans only:

Metralan Herbicide alone or in combination with Trifluralin 480

Spray anytime from 4 weeks before sowing until just before sowing. Use fixed boom power sprayers set at 200-300 kPa and fixed with fan nozzles. Use 120-500 litres water per hectare. Openings in screens should be equal to or larger than 80 mesh. Agitate by mechanical or hydraulic means in the spray tank. When spraying avoid overlapping. Shut off spray booms while starting, turning, slowing and stopping otherwise crop injury may result.

Metralan Herbicide alone

If possible spray and incorporate within the same operation. If not possible incorporate spray within 24 hours of application using Go-devil or Lilliston cultivators set to work 5 cm deep.

Metralan Herbicide plus Trifluralin 480

After spraying mix soil within 4 hours. Spray and incorporate during the one operation if possible. (Refer to Trifluralin 480 label for specific incorporation details).

Sprayer Cleanup

Thoroughly clean all traces of Metralan Herbicide and/or Trifluralin 480 from application equipment immediately after use. Flush tank, pump, hoses and boom with several changes of water after removing nozzle tips and screens (clean these parts separately).

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

DO NOT apply (except as recommended for crop use) 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, as injury or loss may occur.

DO NOT plant treated area to sensitive crops such as brassicas, sunflowers, beetroot, cucurbits, lettuce or onions for at least 6 months following application of Metralan Herbicide as crop injury may result. Thoroughly work the soil prior to planting of these crops.

Drift Warning: DO NOT apply under meteorological conditions or from spraying equipment, which could be expected to cause spray to drift onto nearby susceptible plants, adjacent crops, crop lands or pastures.
Tomatoes - DO NOT plant follow-on crops of cucurbits or capsicums when applying Metralan Herbicide to autumn plantings.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

DO NOT contaminate streams, rivers or waterways by cleaning of equipment, disposal of wastes or used containers.

STORAGE AND DISPOSAL

Store in the closed, original container in a dry, cool well-ventilated area. DO NOT store for prolonged periods in direct sunlight. Keep from contact with fertilizers, insecticides, fungicides and seeds. Triple or preferably pressure rinse container 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 bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

SAFETY DIRECTIONS

Harmful if swallowed. May irritate eyes and skin. Avoid contact with eyes and skin. DO NOT inhale dust or spray mist. Wash hands after use.

FIRST AID

If poisoning occurs, contact a Doctor or Poisons Information Centre. Phone Australia 131 126.

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