

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

TITAN

S-METOLACHLOR 960

HERBICIDE

ACTIVE CONSTITUENT: 960g/L S-METOLACHLOR

GROUP **15** HERBICIDE

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

APVMA Approval No.: 69410/148051

Pack Size: 5L-1000L



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EC	Formulation Type Emulsifiable Concentrate
IN A TRANSPORT EMERGENCY • DIAL 000 • POLICE OR FIRE BRIGADE	
TRANSPORT AND HANDLING NOT A DANGEROUS GOOD ACCORDING TO THE AUSTRALIAN DANGEROUS GOODS (ADG) CODE FOR TRANSPORT BY ROAD AND RAIL	

DIRECTIONS FOR USE

Restraints:

DO NOT apply by aircraft.

DO NOT apply to waterlogged soils.

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

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

Fallows, Sorghum: DO NOT apply more than 2L/ha in a single season.

Sorghum: DO NOT apply after the six leaf growth stage.

SPRAY DRIFT RESTRAINTS

Specific definitions for terms used in this section of the label can be found at apvma.gov.au/spraydrift.

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 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.

CROPS	WEEDS CONTROLLED	STATE	RATE	CRITICAL COMMENTS
Broccoli, Brussels Sprouts, Cabbages, Cauliflowers	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 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, Love Grass, Pigeon Grass, Pigweed, Potato Weed and Wireweed are the major problem. See General Instructions for Warning – Brassica crops.
	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.
	Apple of Peru, Awnless Barnyard Grass, Fierce Thornapple (suppression), Liverseed Grass, Yellow Weed, Redroot Amaranth (suppression)	QLD only		WARNING: QLD only. Stunting and reduced yield may occur in Broccoli in red soils and light alluvial soils. See General Instructions for Warning – Brassica crops.
	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		
Canola, Mustard	Toad Rush	ALL STATES	0.15 to 0.25L per 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. See General Instructions for use in zero-tillage systems.
Cotton (Including Roundup Ready* Flex Cotton and Liberty Link Cotton, and Xtendflex Cotton)	Barnyard Grass, Crowsfoot Grass, Liverseed Grass, Love Grass, Pigeon Grass, Summer Grass, Wandering Jew	QLD, NSW, WA only	1.0L 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%. See General Instructions for Warning – Cotton.
Cotton (Including Roundup Ready* Flex Cotton and Liberty Link Cotton, and Xtendflex Cotton)	Awnless Barnyard Grass, Barnyard Grass, Dinebra, Crowsfoot Grass, Liverseed Grass, Lovegrass, Pigeon Grass, Summer Grass, Trad (Wandering Jew)	QLD, NSW, WA only	1.0L per ha	Over-the-top or directed spray applications: Apply as a standalone over-the-top or directed spray application to a weed-free soil surface, using a boom sprayer applying 85 to 120L of mixture per hectare. Apply only one application of TITAN S-Metolachlor 960 Herbicide per crop. Apply from the 4 node to 18 node crop growth stage. For maximum efficacy, ensure even distribution of spray across the furrow. Use a directed spray if shading by the crop is likely to effect herbicide placement. Some minor transient leaf spotting or leaf scorching may occur after application. To avoid any leaf spotting or leaf scorching use a directed or shielded spray. 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 to incorporate, reduced residual control may occur.

CROPS	WEEDS CONTROLLED	STATE	RATE	CRITICAL COMMENTS
Roundup Ready Flex Cotton, Xtendflex Cotton	Awnless Barnyard Grass, Barnyard Grass, Dinebra, Crowsfoot Grass, Liverseed Grass, Lovegrass, Pigeon Grass, Summer Grass, Trad (Wandering Jew)	QLD, NSW, WA only	1.0L plus 1.52 to 2.32L TITAN Glyphosate 450 per ha	Apply as an over-the-top or directed spray application when weeds are present. Apply only one application of TITAN S-Metolachlor 960 Herbicide per crop.
Green Beans, Navy Beans	Blackberry Nightshade, Common Sowthistle, Fat Hen, Potato Weed, Barnyard Grass, Crowsfoot Grass, Liverseed Grass, Love Grass, Pigeon Grass, Summer Grass, Pigweed (suppression)	QLD, NSW, VIC, SA only	1.5 to 2L per ha	Pre-emergent: 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.
	Powell's Amaranth	TAS only	2L per ha	Pre-emergent: Apply before, at or immediately after planting and before crops and weeds have germinated. For sufficient Amaranth control, the TITAN S-Metolachlor 960 Herbicide application should be followed by 1L/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.
Maize, Sweet Corn	Barnyard Grass, Crowsfoot Grass, Liverseed Grass, Love Grass, Pigeon Grass, Summer Grass, Wandering Jew	ALL STATES	1 to 2L per hectare	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		1 to 2L plus 2.5L of TITAN Atrazine 500 per ha	
Pastures Trikkala Sub-Clover, Haifa White Clover, Maral Persian Clover, Paradana Balansa Clover, Redquin Red Clover, Phalaris and Cocksfoot	Toad Rush	NSW, VIC, TAS, SA, WA, NT only	200 to 250mL per 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.
Peanuts	Barnyard Grass, Crowsfoot Grass, Liverseed Grass, Love Grass, Pigeon Grass, Summer Grass, Wandering Jew	QLD, NSW, WA, NT only	1 to 2L 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 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.
Soybeans, Sunflowers		ALL STATES		
Sorghum treated with Concep II Sorghum Seed Safener	Barnyard Grass, Crowsfoot Grass, Liverseed Grass, Love Grass, Pigeon Grass, Summer Grass, Wandering Jew	QLD, NSW, WA, NT only	1 to 2L 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 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.
	Blackberry Nightshade, Caltrop, Common Thornapple, Mintweed, Needle Burr, Noogoora Burr, Pigweed, Redroot Amaranth, Slim Amaranth		1 to 2L plus 2.5L of TITAN Atrazine 500 per ha	

CROPS	WEEDS CONTROLLED	STATE	RATE	CRITICAL COMMENTS
Sugarcane (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 TITAN Atrazine 500 (500 g/L) or 1.5 to 2kg of TITAN Atrazine 900 WG per ha	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 a flowable diuron (500g/L) at 1 L/ha or TITAN Paraquat 250 Herbicide (1L/ha), applied as a post directed spray, can be added. TANK MIXTURES: 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.
		Northern QLD only (Mackay North)	1.45 to 1.8L plus 3.6 to 4.5L TITAN Atrazine 500 or 2 to 2.5kg of TITAN Atrazine 900 WG per ha	Where broadleaf weeds only have emerged and are at the 2 to 4 true leaf stage then TITAN Amine 475 Herbicide at 2.2L/ha should be added. In all cases add a non-ionic surfactant. Follow all instructions and restrictions on the TITAN Atrazine labels. TANK MIXTURES: 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.
Sweet Potatoes	Black Pigweed, Red Shank, Potato Weed, Barnyard Grass, Crowsfoot Grass, Liverseed Grass, Love Grass, Pigeon Grass, Summer Grass, Evening Primrose (suppression)	QLD, NSW, VIC, SA, NT only	1.5L 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 reilling due to exposure of untreated soil.
Tobacco (transplanted in field)	Barnyard Grass, Love Grass, Pigeon Grass, Summer Grass and suppression of Common Thornapple (<i>Datura stramonium</i>) and Nightshades (<i>Solanum sarrachoides</i> and <i>S. gigrum</i>)	NSW, VIC only	1.5L per 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.
Barley, Oats	Suppression of Annual Ryegrass	NSW, ACT, VIC, TAS, SA, WA only	375 to 500mL per 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. See General Instructions for use in zero-tillage systems.
Wheat, Barley, Oats, Triticale	Toad Rush	NSW, ACT, VIC, TAS, SA, WA only	150 to 250mL per 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 TITAN Clopyralid 750SG Herbicide, apply pre-sowing and incorporate by sowing operation (for Wheat only). See General Instructions for use in zero-tillage systems.

CROPS	WEEDS CONTROLLED	STATE	RATE	CRITICAL COMMENTS
Brassica Leafy Vegetables including Chinese White Cabbage, Chinese Flowering Cabbage, Chinese Broccoli, Indian Mustard Cabbage, Chinese Cabbage, Mizuna Greens, Red Mustard, Curled Mustard, Chinese Flat Cabbage, Mustard Greens, Turnip Greens, Rutabaga Greens and Mibuna Greens	Annual Ryegrass, Apple of Peru, Awnless Barnyard Grass, Blackberry Nightshade, Chickweed (suppression), Common Cotula, Common Sowthistle (suppression), Crowsfoot Grass, Deadnettle, Fat Hen, Feathertop Rhodes Grass, Fiddle Dock, Fierce Thornapple (suppression), Italian Ryegrass, Liverseed Grass, Love Grass, Nettleleaf Goosefoot (suppression), Pigeon Grass, Pigweed (suppression), Potato Weed, Redroot Amaranth (suppression), Shepherd's Purse, Stinging Nettle, Summer Grass, Twiggy Turnip (suppression), Winter Grass, Wireweed (suppression), Yellow Weed	ALL STATES	1 to 2L per ha	Apply one treatment only, immediately after transplanting. Apply in a minimum of 60L water per hectare. Apply sufficient irrigation after application to wet the upper 3 to 4cm of soil with 24 hours. Use rates towards the higher end of the range where Blackberry Nightshade, Chickweed, Fat Hen, Love Grass, Pigweed, Potato Weed and Wire Weed are major problems (Refer to Brassica use pattern on product label). See GENERAL INSTRUCTIONS for Warning – Brassica Crops.
Culinary Herbs: Basil, Bay Leaves, Borage, Chives, Coriander, Dill, Fennel, Lemon Balm, Lemon Grass, Kaffir Lime Leaves, Marigold Flowers, Marjoram (Oregano), Mints, Nasturtium Leaves, Parsley, Rosemary, Sage, Salad Burnett, Sorrel, Tarragon, Thyme Savoury Root Vegetable: Galangal Leafy Vegetables: Rucola (Rocket), Chervil, Mizuna Teas: Lemon Verbena Spice: Turmeric Edible Flowers: Dianthus, Roses			1.5 to 2L per ha	Apply before, at or immediately after planting/transplanting and before crops and weeds have germinated. Sufficient irrigation to wet the top 3 to 4cm of soil should be applied within 24 hours. DO NOT use more than once per season.
Fallows prior to planting crops and as described under Crop Replanting Interval	Awnless Barnyard Grass, Barnyard Grass, Common Sowthistle, Crowsfoot Grass, Feathertop Rhodes Grass, Liverseed Grass, Love Grass, Pigeon Grass, Stinkgrass, Summer Grass	QLD, NSW only	1 to 2L per ha	Apply in fallows, following crop harvest but not closer to planting the following crop than the period specified under CROP REPLANTING INTERVAL. Minimum replanting intervals may apply to crops following TITAN S-Metolachlor 960 Herbicide application. Best results are achieved when applied to an even, weed-free soil and before weeds begin germination. Sufficient rainfall or irrigation is required after application and prior to weed emergence to move the herbicide into the zone of emerging weeds and allow uptake. TITAN S-Metolachlor 960 Herbicide will not control emerged weeds and must be used with the recommended rate of a knockdown herbicide where weeds are present. Cultivation following application may reduce pre-emergence weed control.
Fallows	Awnless Barnyard Grass, Barnyard Grass, Common Sowthistle, Crowsfoot Grass, Feathertop Rhodes Grass, Liverseed Grass, Love Grass, Pigeon Grass, Stinkgrass, Summer Grass	QLD, NSW only	Applied as a split application: 1.0 to 1.5L per ha followed by 0.5 to 1.0L per ha	DO NOT apply more than 2L/ha in a single season. Apply to provide extended residual control in sites with a history of effective weed control and where reduced weed seed loads exist. Avoid splitting the herbicide dose in situations where substantial weed numbers are expected or on heavy soils and apply TITAN S-Metolachlor 960 Herbicide at the maximum label rate. Apply the initial application pre-emergent to weeds before or at planting or fallow establishment. Apply a follow-up application within 4 weeks of the initial application. TITAN S-Metolachlor 960 Herbicide will not control emerged weeds and both the initial application and the follow-up application must be applied before weeds emerge. Sufficient rainfall is required following application and prior to weed emergence to move the herbicide into the zone of emerging weeds and allow uptake.

CROPS	WEEDS CONTROLLED	STATE	RATE	CRITICAL COMMENTS
Rhubarb	Annual Ryegrass, Apple of Peru, Awnless Barnyard Grass, Blackberry Nightshade, Chickweed (suppression), Common Cotula, Common Sowthistle (suppression), Crowsfoot Grass,	ALL STATES	1 to 2L per ha	Pre-emergent: Apply one application only, immediately before or after transplanting crowns and 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 re-hilling due to exposure of untreated soil.
Spinach, Silverbeet	Deadnettle, Fat Hen, Feathertop Rhodes Grass, Fiddle Dock, Fierce Thornapple (suppression), Italian Ryegrass, Liverseed Grass, Love Grass, Nettleleaf Goosefoot (suppression), Pigeon Grass, Pigweed (suppression), Potato Weed, Redroot Amaranth (suppression), Shepherd's Purse, Stinging Nettle, Summer Grass, Twiggy Turnip (suppression), Winter Grass, Wireweed (suppression), Yellow Weed		1.5 to 2L per ha	Apply with a boom spray, in a minimum of 60L water/ha. Apply immediately before, at or immediately after sowing. If transplanting the crop, apply immediately before transplanting. DO NOT apply herbicide over the transplants. Crop retardation may occur where the herbicide is used on soils that have low organic matter content and which contain more than 60% of fine sand and silt. On these soil types, use rates towards the low end of the rate range, and apply to moist soil. Irrigation after application on these types of soils should be limited to no more than 25mm. Also, on these soils, do NOT use more than once per year (as on product label for Brassicas). For other relevant instructions, see Broccoli (etc) section of Directions For Use table.
Spring Onions, Shallots			1L per ha	Direct Seeded Crops: Apply one application before, at or immediately after planting and before crops and weeds have germinated. Transplanted Crops: Apply one application before planting and before weeds have germinated.

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

WITHHOLDING PERIODS

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

Green Beans, Navy Beans: DO NOT HARVEST BEANS FOR 8 WEEKS AFTER APPLICATION.

DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 10 WEEKS AFTER APPLICATION.

Herbs, Chervil, Mizuna, Rucola, Lemon Verbena: DO NOT HARVEST FOR 8 WEEKS AFTER APPLICATION.

Galangal, Turmeric: DO NOT HARVEST FOR 23 WEEKS AFTER APPLICATION.

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

Sorghum: DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 4 WEEKS AFTER APPLICATION.

Sweet Potatoes: DO NOT HARVEST, GRAZE OR CUT FOR STOCK FOOD FOR 23 WEEKS AFTER APPLICATION.

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

HARVEST withhold for all other crops: NOT REQUIRED WHEN USED AS DIRECTED.

FORAGE withhold for all other crops including Fallow (except Sweet Potatoes): DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 13 WEEKS AFTER APPLICATION.

EXPORT OF TREATED PRODUCE:

Growers should note that maximum residue limits (MRLs) or import tolerances may not exist in all markets for edible produce treated with this product. If you are growing edible produce for export, please check with industry representative or TITAN AG Pty Ltd for the latest information on MRLs and import tolerances before using this product.

GENERAL INSTRUCTIONS

TITAN S-Metolachlor 960 Herbicide is a short residual, pre-emergent herbicide registered 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 CONCEPT treated Sorghum but, when mixed with 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. Duration and effectiveness of weed control will depend on use rate, soil type and rainfall or irrigation after application. Good soil moisture to ensure soil movement and uptake by emerging weed seeds. Drying of the top soil can result in less effective weed control.

MIXING

Fill the spray tank to one quarter full. Then add TITAN S-Metolachlor 960 Herbicide while adding water to make up the final spray volume. Pour TITAN S-Metolachlor 960 Herbicide into the stream of incoming water. Good agitation at the time TITAN S-Metolachlor 960 Herbicide 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 TITAN S-Metolachlor 960 Herbicide 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. Read and follow all label directions, restraints, plantback periods, withholding periods, resistance management, precautions, protection statements and safety directions for the tank mix products.

APPLICATION

Ground Application: Apply in a minimum of 60L/ha of water.

COMPATIBILITY

TITAN S-Metolachlor 960 Herbicide is compatible with Flowable Gesagard*, TITAN Atrazine 500 SC, TITAN Atrazine 900 WG, TITAN Triasulfuron 750 WG, Basagran*, TITAN EOS, TITAN Glyphosate 450, TITAN Glyphosate 540 K-Salt, TITAN Titanium and TITAN Boonta.

CROP REPLANTING INTERVAL

DO NOT plant crops other than Broccoli, Brussels Sprouts, Cabbages, Cauliflowers, Cotton, Maize, Peanuts, Soybeans, Sunflowers, Sweet Corn, Tobacco or CONCEPT treated Sorghum within 6 months of application of TITAN S-Metolachlor 960 Herbicide.

TO AVOID CROP DAMAGE

As metolachlor is known to cause some crop damage in sandy-sandy loam soils with low organic matter, it is recommended that growers test the safety of metolachlor on a small area of their crop before using the product on larger areas. If any adverse crop symptoms are observed within 14 days of application in which irrigation or rainfall has occurred, then the product should not be used.

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. TITAN S-Metolachlor 960 Herbicide should not be used in situations where these conditions are likely to occur.

WARNING – Brassica crops: Crop retardation may occur where TITAN S-Metolachlor 960 Herbicide 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 TITAN S-Metolachlor 960 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. 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 TITAN S-Metolachlor 960 Herbicide immediately before seeding.

RESISTANT WEEDS WARNING

TITAN S-Metolachlor 960 Herbicide is a member of the α -chloroacetamides group of herbicides. The product has the inhibition of very long chain fatty acid synthesis mode of action. For weed resistance

management, the product is a Group 15 herbicide. Some naturally occurring weed biotypes resistant to the product and other Group 15 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 15 herbicides. Since the occurrence of resistant weeds is difficult to detect prior to use, TITAN AG 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 TITAN AG representative. Large numbers of healthy surviving weeds can be an indication that resistance is developing. Efforts should be made to prevent seed set of the surviving weeds. DO NOT exceed the maximum recommended rate of TITAN S-Metolachlor 960 Herbicide in any year. DO NOT apply other Group 15 herbicides with the inhibition of very long chain fatty acid synthesis mode of action to a crop in the same season.

If the user suspects that the target weed population is resistant to herbicides with this mode of action, TITAN S-Metolachlor 960 Herbicide or other Group 15 herbicides should not be used. Strategies to minimise the risk of herbicide resistance are available. The above recommendations should be incorporated into an Integrated Weed Management (IWM) Program that uses a diverse range of options to manage grass weeds and avoids over reliance on any one method of control. Consult your farm chemical supplier, consultant, local Department of Agriculture or Primary Industries, or local TITAN AG representative for details.

Integrated Weed Management for over-the-top use on Roundup Ready

Flex Cotton: It is advised that consultation on Integrated Weed Management be undertaken with an accredited agronomist or program prior to use of TITAN S-Metolachlor 960 Herbicide (alone or in a tank mix) over Roundup Ready Flex Cotton. Please refer to the label of the tank mix partner (eg. Roundup Ready Herbicide with Plantshield) for additional information on weed resistance management.

PRECAUTION

Re-entry period: DO NOT enter treated areas without protective clothing until spray has dried.

PROTECTION OF LIVESTOCK

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

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

DO NOT drain or flush equipment on or near desirable trees or other plants, where their roots may extend, or in situations where by movement of soil or by seepage absorption of the herbicide may occur.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

TOXIC TO FISH. DO NOT contaminate streams, rivers or watercourses 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.

Non-refillable containers: 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 the eyes. Avoid contact with eyes and skin. Repeated exposure may cause allergic disorders. Sensitive workers should use protective clothing. When opening the container and preparing spray wear cotton overalls buttoned to the neck and wrist (or equivalent clothing), a washable hat, elbow-length PVC gloves and goggles. When using the prepared spray, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing), a washable hat, elbow-length PVC gloves, face shield or goggles. If product in eyes, wash it 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, face shield or goggles and contaminated clothing.

GROUP **15** HERBICIDE



FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 131126; New Zealand 0800 764 766.

SAFETY DATA SHEET

Additional information is listed in the safety data sheet (SDS). A safety data sheet for TITAN S-Metolachlor 960 Herbicide is available from TITAN AG Pty Ltd on request. Call Customer Service on (02) 9999 6655 or visit titanag.com.au

CONDITIONS OF SALE: TITAN AG Pty Ltd shall not be liable for any loss injury damage or death whether consequential or otherwise whatsoever or howsoever arising whether through negligence or otherwise in connection with the sale supply use or application of this product. The supply of this product is on the express condition that the purchaser does not rely on TITAN AG's skill or judgment in purchasing or using the same and every person dealing with this product does so at his own risk absolutely. No representative of TITAN AG Pty Ltd has any authority to add to or alter these conditions.

Additional statements required by Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia: May cause an allergic skin reaction. Very toxic to aquatic life with long lasting effects. Precautionary Statements: Avoid breathing dust/fume/gas/mist/vapours/spray. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves. IF ON SKIN: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see on this label). Collect spillage. Dispose of contents/container in accordance with local/regional/national regulations.

* Other trademarks

