

Product Name: : DUAL GOLD HERBICIDE
APVMA Approval No: 50477/112583



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| Label Name: | DUAL GOLD HERBICIDE |
| Signal Headings: | CAUTION KEEP OUT OF REACH OF CHILDREN READ SAFETY DIRECTIONS BEFORE OPENING OR USING |
| Constituent Statements: | 960 g/L S-METOLACHLOR |
| Mode of Action: | GROUP K HERBICIDE |
| Statement of Claims: | Controls certain annual grasses and broadleaf weeds in certain crops as specified in the Directions for Use |
| Net Contents: | 5 L - 1000 L |
| Restrains: | 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 Fallows, Sorghum: DO NOT apply more than 2 L/ha in a single season Sorghum: DO NOT apply after the 6 leaf growth stage |
| Directions for Use: | Please see attached file. |

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| Other Limitations: | |
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| Withholding Periods: | <p>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 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 Wheat, Barley, Oats, Triticale: 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</p> |
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| Trade Advice: | |
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| General Instructions: | Please see attached file. |
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| Resistance Warning: | <p>DUAL GOLD 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, Syngenta 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 Syngenta representative.</p> <p>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 DUAL GOLD in any year. DO NOT apply other Group K herbicides with the inhibition of fat acid synthesis mode of action to a crop in the same season.</p> <p>If the user suspects that the target weed population is resistant to herbicides with this mode of action, DUAL GOLD or other Group K 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 Syngenta representative for details.</p> <p>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 DUAL Gold (alone or in a tank mix) over Roundup Ready Flex cotton. Please refer to the label of the tank mix partner (eg Roundup</p> |
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| | Ready Herbicide with Plantshield, Weedmaster DST) for additional information on weed resistance management. |
| Precautions: | Re-entry Period DO NOT enter treated areas without protective clothing until spray has dried. |
| Protections: | <p>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 allow spray to drift onto adjacent fallow land. DO NOT apply on or near shrubs, trees, lawns or crops other than wheat or barley. 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.</p> <p>PROTECTION OF LIVESTOCK DO NOT graze or cut Sweet Potato leaves for stock food.</p> <p>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.</p> |
| Storage and Disposal: | <p>STORAGE AND DISPOSAL Store in the closed, original container in a dry, cool, well ventilated area out of direct sunlight. Refillable containers Empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage. 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 500 mm below the surface in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots, in compliance with relevant Local, State or Territory government regulations. DO NOT burn empty containers or product.</p> |
| Safety Directions: | <p>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:</p> <ul style="list-style-type: none"> • cotton overalls buttoned to the neck and wrist (or equivalent clothing) • a washable hat • elbow-length PVC gloves • goggles <p>When using the prepared spray, wear:</p> <ul style="list-style-type: none"> • cotton overalls buttoned to the neck and wrist (or equivalent clothing) • a washable hat • elbow-length PVC gloves • face shield or goggles <p>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.</p> |

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| First Aid Instructions: | If poisoning occurs, contact a doctor or Poisons Information Centre. Phone 131 126. If swallowed, do NOT induce vomiting. |
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| First Aid Warnings: | |
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DIRECTIONS FOR USE

| Crops | Weeds Controlled | State | Rate | Critical Comments |
|---|---|-----------------------------|-------------------|--|
| Broccoli, Brussels Sprouts, Cabbages, Cauliflowers | Barnyard Grass, Blackberry Nightshade, Chickweed (suppression), Deadnettle, Fat Hen, Feathertop Rhodes Grass, 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 2 L/ha | Apply immediately after transplanting. Sufficient irrigation to wet the top 3 to 4 cm 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 4 cm 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. |
| | 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. |
| | 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 only | | See General Instructions for Warning - Brassica Crops. |
| Canola | 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. See General Instructions for use in Zero-Tillage Systems. |
| Cotton (Including Roundup Ready* Flex cotton and Liberty Link cotton) | Barnyard Grass, Crowsfoot Grass, Liverseed Grass, Love Grass, Pigeon Grass, Summer Grass, Trad (Wandering Jew) | Qld, NSW, WA only | 1 L/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 L mixture/ha. 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. 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. |

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| Crops | Weeds Controlled | State | Rate | Critical Comments |
|---|--|---------------------------------|--|--|
| Cotton (Including Roundup Ready* Flex cotton and Liberty Link cotton) | Awnless Barnyard Grass (<i>Echinochloa colona</i>), Barnyard Grass (<i>Echinochloa crus-galli</i>), Dinebra (<i>Dinebra retroflexa</i>), Crowsfoot Grass, Liverseed Grass, Lovegrass, Pigeon Grass, Summer Grass, Trad (Wandering Jew) | Qld, NSW, WA only | 1 L/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 120 L of mixture per hectare. Apply only one application of DUAL GOLD 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. |
| Roundup Ready Flex Cotton | | | 1 L/ha plus 1 to 1.5 kg/ha Roundup Ready Herbicide with Plantshield* or plus 1.46 to 2.2 L/ha Weedmaster* DST* | Apply as an over-the-top or directed spray application when weeds are present. Apply only one application of DUAL GOLD per crop. |
| Green Beans, Navy Beans | Blackberry Nightshade, Common Sowthistle, Fat Hen, Feathertop Rhodes Grass, Potato Weed, Barnyard Grass, Crowsfoot Grass, Liverseed Grass, Love Grass, Pigeon Grass, Stink Grass, Summer Grass and suppression of Pigweed | Qld, NSW, Vic, SA only | 1.5 to 2 L/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 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. |
| | Powell's Amaranth | Tas only | 2 L/ha | Pre-emergent: Apply before, at or immediately after planting and before crops and weeds have germinated. For sufficient Amaranth control, the DUAL GOLD application should be followed by 1 L/ha Basagran* (2 leaf Amaranth) or 2 L/ha Basagran (4 leaf Amaranth). 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. |

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| Crops | Weeds Controlled | State | Rate | Critical Comments |
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| Maize, Sweet Corn | Awnless Barnyard Grass, Barnyard Grass, Crowsfoot Grass, Feathertop Rhodes Grass, Liverseed Grass, Love Grass, Pigeon Grass, Stinkgrass, Summer Grass, Trad (Wandering Jew) | All States | 1 to 2 L/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 L mixture/ha. 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. 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 2 L/ha plus 2.5 L/ha of atrazine (500 g/L) | |
| Pastures 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 250 mL/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 4 cm 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 250 mL rate is being used. |
| Peanuts | Awnless Barnyard Grass, Barnyard Grass, Crowsfoot Grass, Feathertop Rhodes Grass, Liverseed Grass, Love Grass, Pigeon Grass, Stinkgrass, Summer Grass, Trad (Wandering Jew) | Qld, NSW, WA, NT only | 1 to 2 L/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 toward the higher end of the range on heavy soils or where a heavy grass population is expected. |
| Soybeans, Sunflowers | | All States | | |

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| Crops | Weeds Controlled | State | Rate | Critical Comments |
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| Sorghum treated with Concep II® Sorghum Seed Safener | Awnless Barnyard Grass, Barnyard Grass, Crowsfoot Grass, Feathertop Rhodes Grass, Liverseed Grass, Love Grass, Pigeon Grass, Stinkgrass, Summer Grass, Trad (Wandering Jew) | Qld, NSW, WA, NT only | 1 to 2 L/ha | <p>All Sorghum use patterns: 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 and ensure herbicide activation. If applying prior to crop planting and sufficient rainfall does not occur or irrigation is unavailable, incorporate chemical to a depth of 3 to 4 cm.</p> <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 L mixture/ha. 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.</p> |
| | Blackberry Nightshade, Caltrop, Common Thornapple, Mintweed, Needle Burr, Noogoora Burr, Pigweed, Redroot Amaranth, Slim Amaranth | | 1 to 2 L/ha plus 2.5 L/ha of atrazine (500 g/L) | |
| | Awnless Barnyard Grass, Barnyard Grass, Crowsfoot Grass, Feathertop Rhodes Grass, Liverseed Grass, Love Grass, Pigeon Grass, Stinkgrass, Summer Grass | | <p>Applied as a split application: 1.0 to 1.5 L/ha up to four weeks prior to sowing, followed by 0.5 to 1.0 L/ha at or immediately after planting</p> <p><u>or</u></p> <p>1.0 to 1.5 L/ha at or immediately after planting, followed by 0.5 to 1.0 L/ha post crop emergence</p> | <p>Split application: 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 DUAL GOLD at the maximum label rate. Apply a follow-up application within 4 to 6 weeks of the initial application, with the final application occurring no later than the 6-leaf stage of the crop. DO NOT exceed a total of 2.0 L/ha in a single growing season. DO NOT apply after the 6 leaf growth stage. DUAL GOLD 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 each application and prior to weed emergence to move the herbicide into the zone of emerging weeds and allow herbicide activation and uptake.</p> |

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| Crops | Weeds Controlled | State | Rate | Critical Comments |
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| 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, Feathertop Rhodes 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 (Bundaberg South) and Northern NSW only | 1.1 to 1.45 L plus 2.7 to 3.6 L atrazine (500 g/L) or 1.5 to 2 kg of Gesaprim® Granules (900 g/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 (2.5 cm) may assist results. DO NOT throw untreated soil onto treated areas as this will reduce weed control. In Southern Queensland and Northern New South Wales, 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 (500 g/L), a flowable diuron (500 g/L) at 1 L/ha or Gramoxone® 360 Pro (0.7 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 500 g/L 2,4-D amine at 2 L/ha should be added. In all cases add a non-ionic surfactant. Follow all instructions and restrictions on the Gesaprim labels. 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. |
| | | Northern Qld only (Mackay North) | 1.45 to 1.8 L plus 3.6 to 4.5 L atrazine (500 g/L) or 2 to 2.5 kg of Gesaprim Granules (900 g/kg) | |
| Sweet Potatoes | Barnyard Grass, Black Pigweed, Crowsfoot Grass, Feathertop Rhodes Grass, Liverseed Grass, Love Grass, Pigeon Grass, Potato Weed, Red Shank, Stinkgrass, Summer Grass, suppression of Evening Primrose | Qld, NSW, Vic, SA, NT only | 1.5 L/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 rehillage due to exposure of untreated soil. |

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| Tobacco transplanted in field | Barnyard Grass, Feathertop Rhodes Grass, Love Grass, Pigeon Grass, Stinkgrass, 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 | 1.5 L/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 7.5 cm. 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 4 cm 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, Vic, Tas, SA, WA, ACT only | 375 to 500 mL/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 4 cm of soil should occur within 10 day 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. See General Instructions for use in Zero Tillage Systems. |
| Wheat, Barley, Oats, Triticale | Toad Rush | NSW, Vic, Tas, SA, WA, ACT only | 150 to 250 mL/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 4 cm 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 Logran 750 [®] , apply pre- sowing and incorporate by sowing operation (for wheat only). See General Instructions for use in Zero Tillage Systems. |

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| Crops | Weeds Controlled | State | Rate | Critical Comments |
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| 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 and Summer Grass | QLD, NSW only | 1 to 2 L/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 DUAL GOLD 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. DUAL GOLD will not control emerged weeds and must be used with the recommended rate 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 and Summer Grass | QLD, NSW only | Applied as a split application: 1.0 to 1.5 L/ha followed by 0.5 to 1.0 L/ha | 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 DUAL GOLD at the maximum label rate. DO NOT apply more than 2 L/ha in a single season. 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. DUAL GOLD 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. |

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

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| General Instructions | | 29 August 2018 |

GENERAL INSTRUCTIONS

DUAL GOLD 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 Concep II 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 4 cm 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 DUAL GOLD while adding water to make up the final spray volume. Pour DUAL GOLD into the stream of incoming water. Good agitation at the time DUAL GOLD 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 DUAL GOLD 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, plant-back periods, withholding periods, resistance management, precautions, protection statements and safety directions for the tank mix products.

Application

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

Crop Replanting Interval

DO NOT plant crops other than broccoli, brussel sprouts, cabbages, cauliflowers, cotton, maize, peanuts, soybeans, sunflowers, sweet corn, tobacco or CONCEP II treated sorghum within 6 months of application of DUAL GOLD.

Compatibility

DUAL GOLD is compatible with Cotogard* SC, Cotoran* SC, Gesagard® 500 SC, atrazine, Gesaprim Granules (900 g/kg), Logran®, Basagran®, Spray.Seed®, Roundup and Weedmaster DST.

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. DUAL GOLD should not be used in situations where these conditions are likely to occur.

WARNING - Brassica Crops: Crop retardation may occur where DUAL GOLD 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 DUAL GOLD towards the lower end of the rate range and apply onto moist soil. Irrigation after application should be limited to no more than 25 mm. 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 DUAL GOLD immediately before seeding.