

Additional statements required by Globally Harmonised Systems for 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.

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid release to the environment. Use personal protective equipment as required. IF exposed or concerned: Get medical advice/attention: Collect spillage. Store locked up. Dispose of contents/container in accordance with national regulations.

CHASER C BOOKLET

APVMA Approval No: 770454/105393

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In a Transport Emergency Dial 000 Police or Fire Brigade	SPECIALIST ADVICE IN EMERGENCY ONLY 1800 033 111 ALL HOURS – AUSTRALIA WIDE
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DIRECTIONS FOR USE

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 run off for at least 2 days after application

Crops	Weeds Controlled	State	Rate	Critical Comments
Broccoli, Brussels sprouts, Cabbages, Cauliflowers	Barnyard Grass, Blackberry Nightshade, Chickweed (suppression), Deadnettle, Fat-hen, Lovegrass, Pigeon Grass, Pigweed (suppression), Potato Weed, Shepherds 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 4cm of soil should be applied with 24 hours. Use rates towards the higher end of the range where Blackberry Nightshade, Chickweed, Fat-hen, Lovegrass, Pigeon Grass, Pigweed, Potato Weed and Wireweed are the major problem. 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, Twiggy Turnip and Nettleleaf Goosefoot are the major problems. 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
Broccoli, Brussels sprouts, Cabbages, Cauliflowers	Apple of Peru, Awnless Barnyard Grass, Fierce Thornapple (suppression) Liverseed Grass, Yellow Weed, Redroot Amaranth (suppression)	Qld only	1.5 to 2 L/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 Apple of Peru, Common Sowthistle, Fierce Thornapple, Liverseed Grass, Redroot Amaranth, Twiggy Turnip and Nettleleaf Goosefoot are the major problems. 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), Twiggy Turnip (suppression), Winter Grass.	Vic, Tas only		

Crops	Weeds Controlled	State	Rate	Critical Comments
Canola	Toad Rush	NSW, SA, Vic, Tas Qld	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 towards the higher end of the range where longer residual control is required. See General Instructions for use in Zero Tillage systems
Cotton	Barnyard Grass, Crowsfoot Grass, Liverseed Grass, Lovegrass, Pigeon Grass, Summer Grass, 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 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
Green Beans Navy Beans	Black Berry Nightshade, Common Sowthistle, Fat-hen, Potato Weed, Barnyard Grass, Crowsfoot Grass, Liverseed Grass, Lovegrass, Pigeon 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 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.
Green Beans Navy Beans	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 FMC S-Metolachlor Herbicide application should be followed by 1 L/ha Basagran* (2 leaf Amaranth) plus 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.

Crops	Weeds Controlled	State	Rate	Critical Comments
Maize Sweet Corn	Barnyard Grass, Crowsfoot Grass, Liverseed Grass, Lovegrass, Pigeon Grass, Summer Grass, 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 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 2 L plus 2.5 L of Flowable Atrazine (500g/L) /ha	
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 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, Lovegrass, Pigeon Grass, Summer Grass, 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 towards the higher end of the range on heavy soils or where a heavy grass population is expected.
		All States		
Soybeans Sunflowers				

Crops	Weeds Controlled	State	Rate	Critical Comments
Sorghum treated with Concept 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/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 Concept II Sorghum Seed Safener. Rain or irrigation is necessary within 10 days of spraying to thoroughly wet the top 3 to 4 cm of soil. If rain does not occur or irrigation is unavailable incorporate chemical to a depth of 3 to 4 cm. Use rates towards the higher end of the range on heavy soils or where a heavy grass population is expected. DO NOT throw untreated soil onto treated areas as this will reduce weed control. Use the lower rate on sandy soils.
			1 to 2/ha plus 2.5L/ha of flowable Atrazine (500g/L)	
Sugar Cane plant and ratoon	Awnless Barnyard Grass, Barnyard Grass, Bellvine, Billygoat Weed (Blue Top), Blackberry Nightshade, Caltrop, Common Sowthistle (Milt 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 1.45 L/ha plus 2.7 to 3.6 L/ha of flowable Atrazine (500g/L) or 1.5 to 2kg/ha of Atrazine (900g/kg) granules	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 use rates towards the higher end of the range on heavy soils where a high grass population is expected. In Northern Queensland application must be made to a moist soil and rainfall or irrigation should occur within 24 hours of application. Use rates towards 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 Primato [®] Z (2L/ha), a flowable diuron (500g/L0 at 1L/ha or Gramoxone [®] W (1L/ha), applied as a post or 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.
		Northern Qld only (Mackay North)	1.45 to 1.8 L/ha plus 2.7 to 3.6 to 4.5L/ha of flowable Atrazine (500g/L) or 2 to 2.5 kg/ha of Atrazine (900g/kg) granules	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 2 L/ha should be added. In all cases add a non-ionic surfactant. Follow all instructions and restriction on the Atrazine labels.

Crops	Weeds Controlled	State	Rate	Critical Comments
Sweet Potatoes	Black Pigweed, Redshank, Potato weed, Barnyard Grass, Crowsfoot Grass, Liverseed Grass, Lovegrasses, Pigeon Grass, 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.
Tobacco (transplanted in field)	Barnyard Grass, Lovegrass, Pigeon Grass, Summer Grass, and suppression of Common Thornapple (<i>Detura stramonium</i>) and Nightshades (<i>Solanum sarrachoides</i> and <i>S.gigum</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 7.5cm. 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, 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 days after spraying. Damage may occur if crop is sown too shallow (less than 4 cm). Damage may 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 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 towards the higher end of the range in wet areas or when longer residual control is required or in situations where crop competition is minimal. When mixed with Logran 750 apply pre-sowing and incorporate by sowing operation (for wheat only). See General Instructions for use in Zero tillage Systems.

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

WITHHOLDING PERIOD

- 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 Except Sweet potatoes):**
DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 13 WEEKS AFTER APPLICATION.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 Flowable Atrazine control of many important annual weeds and grasses is obtained without the problem of carryover of herbicides affecting succeeding crops. The product acts mainly through shoot (coleoptile) absorption. Its effectiveness depends on the occurrence of rainfall or irrigation to move it down into the top 3 to 4cm of soil, where it must be present at the time of weed germination.

Application

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

Mixing

Fill the spray tank to one quarter full. Then add Chaser S Herbicide to make up the final spray volume. Pour Chaser S Herbicide into the stream of oncoming water. Good agitation at the time Chaser S 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 solution salts then Chaser S 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.

Compatibility

Chaser S Herbicide is compatible with Prometryn Flowable Liquid Herbicide, Fluometuron 500 Flowable Herbicide, Prometryn/Fluometuron 500 Liquid Herbicide, Atrazine Flowable Herbicide, Logran®, 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 plant being able to metabolise above normal amounts of the herbicide that may accumulate in the root zone as a result of accelerated capillary movement Chaser S Herbicide should not be used in situations where these conditions are likely to occur.

WARNING – Brassica crops: Crop retardation may occur where Chaser S 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 Chaser S 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 Chaser S Herbicide immediately after seeding.

Resistance Warning

GROUP K HERBICIDE

Chaser S Herbicide is a member of the amides group of herbicides with diverse sites of action. For weed resistance management this is Group K herbicide. Some naturally-occurring weed biotypes resistant to Chaser S Herbicide and other amide 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 Chaser S Herbicide or other amide herbicides.

Since the occurrence of resistant weeds is difficult to detect prior to use, Crop Care Australasia Pty Ltd accepts no liability for any losses that may result from the failure of Chaser S Herbicide 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 an Crop Care representative.

PRECAUTIONS

Re-entry Period

DO NOT enter treated area 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 and 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 six months of application of Chaser S Herbicide

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 drift onto adjacent areas, particularly wetlands, water bodies or watercourses.

STORAGE AND DISPOSAL

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

Triple or preferably pressure rinse containers before disposal. Add rinsings to the 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.

For 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 and 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.

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre (Tel: 13 11 26).

SAFETY DATA SHEET

For further information on Chaser S Herbicide refer to the safety data sheet (SDS) which is available from the supplier or from fmccrop.com.au.

WARRANTY

FMC Australasia Pty Ltd makes no warranty expressed or implied, concerning the use of this product other than that indicated on the label. Except as so warranted the product is sold as is. Buyer and user assume all risk of use and/or handling and/or storage of this material when such use and/or handling and/or storage is contrary to label instructions.

CAUTION

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

Chaser S 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 table.**

IMPORTANT: READ THIS LEAFLET BEFORE USE

FMC

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