

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

CONTENDER 480

SELECTIVE HERBICIDE

ACTIVE CONSTITUENT: 480 g/L TRIFLURALIN
SOLVENT: 475 g/L LIQUID HYDROCARBON

GROUP D HERBICIDE



A pre-emergence herbicide for the control of annual grasses and certain broadleaf weeds in certain horticultural and agricultural crops as listed in the Directions For Use Table.

IMPORTANT: READ THE ATTACHED LEAFLET BEFORE USE

CONTENTS:

- | | | |
|--------------------------|-------------------|-------------------------------------|
| <input type="checkbox"/> | 20 Litres | APVMA Approval No.: 64137/20L/0809 |
| <input type="checkbox"/> | 110 Litres | APVMA Approval No.: 64137/110L/0809 |

Hextar

HEXTAR CHEMICALS PTY. LTD ACN No.: 114 525 709

Level 50, 120 Collins Street, MELBOURNE, VIC 3000. Telephone: (03) 9225 5468 Fax: (03) 9225 5050

Name of File:
64137_47637_20L, 110L_FRONT_MPL_V1.pdf

Dimensions:
20.7 cm (W) x 15.8 cm (H)

Scale of Print:
A4 100%
A3 100%

CONTENDER 480

SELECTIVE HERBICIDE

GENERAL INSTRUCTIONS

THIS PRODUCT MUST BE INCORPORATED INTO THE SOIL WITHIN 4 HOURS OF APPLICATION EXCEPT IN WESTERN AUSTRALIA WHERE THE CROP IS SOWN WITH MINIMUM TILLAGE SOWING EQUIPMENT (FITTED WITH KNIFE POINTS OR BLADES LESS THAN 12MM WIDE, USUALLY WITH PRESS WHEELS) WHERE APPLICATION MAY OCCUR UP TO 24 HOURS BEFORE INCORPORATION BY THE SOWING PROCESS.

STORAGE AND DISPOSAL

Store in closed, original container in a dry well-ventilated area, out of direct sunlight. Do not store below 5°C. Extended storage below 5°C can result in the formation of crystals on the bottom of the container. If crystallization does occur, store the container on its side at room temperature and rock occasionally until crystals re-dissolve. Ensure any crystals are dissolved before adding to the spray tank.

Triple or preferably pressure 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 bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and products should not be burnt.

110L Mini Bulk Returnable Container (110L only)

DO NOT tamper with the Mirco Matic valve or the security seal. DO NOT contaminate the drum with water or any foreign matter. After each use of the product, please ensure that the Micro Matic coupler, delivery system and hoses are disconnected, triple rinsed with clean water and drained accordingly. When the contents of the drum have been used, please return the empty drum to the point of purchase. The drum remains the property of Hextar Chemicals Pty. Ltd.

SAFETY DIRECTIONS

Harmful if swallowed. Will irritate the eyes and skin. Repeated exposure may cause allergic disorders. Sensitive workers should use protective clothing. Avoid contact with eyes and skin. Do not inhale spray mist. When opening the container and using the prepared spray, wear cotton overalls, buttoned to the neck and wrist and a washable hat and elbow length PVC gloves and face shield or goggles. 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 of Poisons Information Centre (Phone Australia 13 1126). If swallowed, DO NOT induce vomiting. Give a glass of water.

MATERIAL SAFETY DATA SHEET

Additional information is listed in the Material Safety Data Sheet (MSDS) which is available from the supplier.

NOTICE TO BUYER

The use of CONTENDER 480 Selective Herbicide being beyond the control of the manufacturer, no warranty expressed or implied is given by Hextar Chemicals Pty. Ltd., regarding its suitability, fitness or efficiency for any purpose for which it is used by the buyer, whether in accordance with the directions or not and Hextar Chemicals Pty. Ltd. accepts no responsibility for any consequence whatsoever resulting from the use of this product.

In a Transport
Emergency Dial
000
Police or Fire Brigade



Batch No.:

Date of Manufacture:



HEXTAR CHEMICALS PTY. LTD. ACN NO.: 114 525 709

Level 50, 120 Collins Street, MELBOURNE VIC 3000.

Telephone: (03) 9225 5468 Fax: (03) 9225 5050

Name of File:

64137_47637_20L, 110L_REAR_MPL_V1.pdf

Dimensions:

20.7 cm (W) x 15.8 cm (H)

Scale of Print:

A4 100%

A3 100%

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

CONTENDER 480

SELECTIVE HERBICIDE

ACTIVE CONSTITUENT: 480 g/L TRIFLURALIN
SOLVENT: 475 g/L LIQUID HYDROCARBON

GROUP D HERBICIDE



**APPROVED
LABEL**

A pre-emergence herbicide for the control of annual grasses and certain broadleaf weeds in certain horticultural and agricultural crops as listed in the Directions For Use Table.

IMPORTANT: READ THE ATTACHED LEAFLET BEFORE USE

CONTENTS:

- 200 Litres** APVMA Approval No.: 64137/200L/0809
 1000 Litres APVMA Approval No.: 64137/1000L/0809

Hextar

HEXTAR CHEMICALS PTY. LTD ACN No.: 114 525 709

Level 50, 120 Collins Street, MELBOURNE, VIC 3000. Telephone: (03) 9225 5468 Fax: (03) 9225 5050

Name of File:
64137_47637_200L, 1000L_FRONT_MPL_V1.pdf

Dimensions:
20.7 cm (W) x 15.8 cm (H)

Scale of Print:
A4 100%
A3 100%

CONTENDER 480

SELECTIVE HERBICIDE

GENERAL INSTRUCTIONS

THIS PRODUCT MUST BE INCORPORATED INTO THE SOIL WITHIN 4 HOURS OF APPLICATION EXCEPT IN WESTERN AUSTRALIA WHERE THE CROP IS SOWN WITH MINIMUM TILLAGE SOWING EQUIPMENT (FITTED WITH KNIFE POINTS OR BLADES LESS THAN 12MM WIDE, USUALLY WITH PRESS WHEELS) WHERE APPLICATION MAY OCCUR UP TO 24 HOURS BEFORE INCORPORATION BY THE SOWING PROCESS.

STORAGE AND DISPOSAL

Store in closed, original container in a dry well-ventilated area, out of direct sunlight. Do not store below 5°C. Extended storage below 5°C can result in the formation of crystals on the bottom of the container. If crystallization does occur, store the container on its side at room temperature and rock occasionally until crystals re-dissolve. Ensure any crystals are dissolved before adding to the spray tank.

Triple or preferably pressure 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 bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and products should not be burnt.

110L Mini Bulk Returnable Container (110L only)

DO NOT tamper with the Mirco Matic valve or the security seal. DO NOT contaminate the drum with water or any foreign matter. After each use of the product, please ensure that the Micro Matic coupler, delivery system and hoses are disconnected, triple rinsed with clean water and drained accordingly. When the contents of the drum have been used, please return the empty drum to the point of purchase. The drum remains the property of Hextar Chemicals Pty. Ltd.

SAFETY DIRECTIONS

Harmful if swallowed. Will irritate the eyes and skin. Repeated exposure may cause allergic disorders. Sensitive workers should use protective clothing. Avoid contact with eyes and skin. Do not inhale spray mist. When opening the container and using the prepared spray, wear cotton overalls, buttoned to the neck and wrist and a washable hat and elbow length PVC gloves and face shield or goggles. 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 of Poisons Information Centre (Phone Australia 13 1126). If swallowed, DO NOT induce vomiting. Give a glass of water.

MATERIAL SAFETY DATA SHEET

Additional information is listed in the Material Safety Data Sheet (MSDS) which is available from the supplier.

NOTICE TO BUYER

The use of CONTENDER 480 Selective Herbicide being beyond the control of the manufacturer, no warranty expressed or implied is given by Hextar Chemicals Pty. Ltd., regarding its suitability, fitness or efficiency for any purpose for which it is used by the buyer, whether in accordance with the directions or not and Hextar Chemicals Pty. Ltd. accepts no responsibility for any consequence whatsoever resulting from the use of this product.

In a Transport
Emergency Dial
000
Police or Fire Brigade



Batch No.:

Date of Manufacture:



HEXTAR CHEMICALS PTY. LTD. ACN NO.: 114 525 709

Level 50, 120 Collins Street, MELBOURNE VIC 3000.

Telephone: (03) 9225 5468 Fax: (03) 9225 5050

Name of File:

64137_47637_200L, 1000L_REAR_MPL_V1.pdf

Dimensions:

20.7 cm (W) x 15.8 cm (H)

Scale of Print:

A4 100%

A3 100%

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

CONTENDER 480

SELECTIVE HERBICIDE

ACTIVE CONSTITUENT: 480 g/L TRIFLURALIN
SOLVENT : 475 g/L LIQUID HYDROCARBON

GROUP D HERBICIDE

A pre-emergence herbicide for the control of annual grasses and certain broadleaf weeds in certain horticultural and agricultural crops as listed in the Directions for Use Table.

IMPORTANT: READ THIS LEAFLET BEFORE USE



HEXTAR CHEMICALS PTY. LTD. (ACN No. 114 525 709)
Suite 308, Level 3, 365 Little Collins Street,
MELBOURNE VIC 3000
Telephone: (03) 9670 0311 Fax: (03) 96701977

APVMA Approval No. 64137/0809

DIRECTIONS FOR USE

1. FIELD CROPS

Situation & Crop	Weeds	State	Rate/ soil type			Critical Comments
			Light	Medium	Heavy	
Chickpeas	Annual Ryegrass, Paradoxa Grass (Canary Grass), Wireweed (Hogweed), Black Pigweed, Suppression of Climbing Buckwheat (Black Bindweed), Wild Oats	Qld only	1.25-1.7 L/ha	1.25-1.7 L/ha	1.25-1.7 L/ha	Use 1.25 L/ha when applying immediately prior to sowing. Use 1.7 L/ha when applying to dry soil before the planting rain.
	Annual Ryegrass, Wireweed (Hogweed), Deadnettle, Wild Oats	Vic only	800 mL/ha plus 0.8 L/ha tri-alleate			Incorporate as per recommendations for wheat, barley and triticale.
	Red & White Fumitory, Rough Poppy, Wireweed, Annual Ryegrass, Barley Grass, Canary Grass, Sand Fescue, Suppression of Deadnettle, Speedwell, Three Cornered Jack, Yellow Burr Weed, Brome Grass, Cereal Oats and soil surface Wild Oats	SA only	1.25 L/ha	1.25 L/ha	1.25 L/ha	Apply to level seedbed 0 to 4 weeks before sowing. Incorporate as per Incorporation Table 6.
Adzuki Beans, Cowpeas, Lablab, Mung Beans, Borlotti Beans, Red Kidney Beans	Amaranthus, Annual Ryegrass, Barnyard Grass, Caltrop, Crab Grass, Paradoxa Grass (Canary Grass), Pigweed, Wild Oats, Winter Grass, Wireweed, Suppression of Fumitory	NSW, ACT only	1.2-1.5 L/ha	1.5 L/ha	1.7 L/ha	Apply from 4 weeks up to just prior to sowing. Refer Incorporation Table 3, 4 or 5 for suitable method of incorporation.
		NSW, ACT, Qld				
Faba Beans	Annual Ryegrass, Barley Grass, Capeweed, Corn Gromwell (Sheepweed), Fumitories, Geranium, Ivy Leaf Speedwell, Mustards, Turnips, Wireweed, Suppression of Brome Grass, Soursob and Wild Oats	SA, WA only	800 mL/ha plus 1.1 kg/ha 900g/kg Simazine DF			Apply to bare moist soil and incorporate to a depth of 5 cm just prior to sowing. Incorporation should be made within 4 hours of application. Application should not be made to ridged or excessively cloddy soil. For full reliable results, significant rainfall (20 or 30mm) is necessary within 2-3 weeks of application.
Pigeon Peas	Amaranthus, Barnyard Grass, Canary Grass, Crowsfoot Grass, Pigweed, Spiny Burrgrass, Summer Grass, Wild Oats, Wireweed (Hogweed), Suppression of Yellow Vine (Caltrop). From seed only: Columbus Grass, Guinea Grass, Johnson Grass, Liverseed Grass	NSW, ACT only	1.2 L/ha	1.5 L/ha	1.7 L/ha	Apply between 4 weeks and just before sowing. Refer to Incorporation Table 3, 4 or 6 for suitable method of incorporation.
Lentils	Annual Phalaris, Annual Ryegrass, Wild Oats, Wireweed	NSW, ACT only	800 mL/ha	1.2L/ha	1.2L/ha	Apply 1 to 4 weeks before sowing.
	Fumitory – Red and White, Rough Poppy, Wireweed, Barley Grass, Canary Grass, Annual Ryegrass, Sand Fescue	SA only	1.25 L/ha	1.25 L/ha	1.25 L/ha	Apply 1 to 4 weeks before sowing.
Navy beans	Annual Ryegrass, Barnyard Grass, Canary Grass, Caltrop (Bullhead, Yellow Vine), Crab Grass, Mossman River Grass (Innocent Grass), Pigweed, Redroot (Amaranthus), Redshank (Prince of Wales Feather), Summer Grass, Wild Oats, Winter Grass, Wireweed (Hogweed)	All States	1.2 L/ha	1.5 L/ha	1.7 L/ha	Spray between 4 weeks and just before sowing takes place. Refer Incorporation Table 3, 4 or 5 for suitable method of incorporation.
Soybeans	From seed only: Columbus Grass, Guinea Grass, Johnson Grass, Liverseed Grass (Urochloa)		1.2 L/ha	1.7 L/ha	2.3 L/ha	
Vetch	Annual Ryegrass, Deadnettle, Wireweed, soil surface Wild Oats, suppression of Brome Grass, Rough Poppy, Speedwell, Three Cornered Jack, Yellow Burr Weed, Sheepweed	SA, WA only	1.7 L/ha	1.7 L/ha	1/7 L/ha	Apply to level seedbed 0 to 4 weeks before sowing. Refer to Incorporation Table 6 for method of incorporation.
Cotton	Crab Grass, Mossman River Grass (Innocent Weed), Pigweed, Redroot (Amaranthus), Red shank (Prince of Wales Feather), Summer Grass, soil surface Wild Oats, Winter Grass, Wireweed (Hogweed), Black Pigweed (Qld only).	Qld, ACT, NSW, WA only	1.2 L/ha	1.7 L/ha	2.3 L/ha	Spray between 6 weeks and just before sowing takes place. Refer Incorporation Table 1 & 2 for method of incorporation.
	From seed only: Columbus Grass, Guinea Grass, Johnson Grass, Liverseed Grass, (Urochloa), Annual Ryegrass, Barnyard Grass, Caltrop (Bullhead/ Yellow Vine), Phalaris spp., Fumitory					

1. FIELD CROPS (CONT')

Situation & Crop	Weeds	State	Rate/ soil type			Critical Comments
			Light	Medium	Heavy	
Legume Seed Crop Establishment	Crab Grass, Mossman River Grass (Innocent Weed), Pigweed, Redroot (Amaranthus), Red shank (Prince of Wales Feather), Summer Grass, soil surface Wild Oats, Winter Grass, Wireweed (Hogweed), Black Pigweed (Qld only).	NSW, ACT, SA, WA, Vic, Tas only	1.2 L/ha	1.2 L/ha	1.7 L/ha	Autumn Sowing – Apply from 4 weeks to 7 days before sowing takes place. Refer Incorporation Table 6 for method of incorporation.
	From seed only: Columbus Grass, Guinea Grass, Johnson Grass, Liverseed Grass, (Urochloa), Annual Ryegrass, Barnyard Grass, Caltrop (Bullhead/ Yellow Vine), Phalaris spp., Fumitory	All States	1.2 L/ha	1.7 L/ha	1.7 L/ha	Spring Sowing – Apply between 4 weeks and 3 days before sowing takes place. Refer Incorporation Table 6 for method of incorporation.
-Lucerne for hay and seed crop		All States				In both cases seedling disease, cold weather, excessive moisture, high salt concentrations and drought could weaken crop seedlings and damage could occur from the use of this product. Temporary crop suppression could result.
Linseed		NSW, ACT, SA, WA, Vic only	1.2 L/ha	1.5 L/ha	1.7 L/ha	Spray 2-4 weeks before sowing. Sowing depth should be 1.3 to 2.5cm. Deeper sowing may result in some stand reduction. Refer Incorporation Table 6 for method of incorporation.
Peanuts		WA, Qld only				Spray between 4 weeks and just before sowing takes place. Refer Incorporation Table 3, 4 or 5 for suitable method of incorporation.
Peas		All States				Spray between 4 weeks and just before sowing takes place. Refer Incorporation Table 6 or 11 for method of incorporation.
Canola						
Safflower						
Sugar cane						
-Early Season		Qld, NSW only	3.0 L/ha	3.0 L/ha	3.0 L/ha	Apply to plant cane after emergence to "out of hand" stage. Apply to ratoon cane immediately after harvest. Refer Incorporation Table 3, 7 or 10 for suitable method of incorporation.
-Late Season			2.3 L/ha	2.3 L/ha	2.3 L/ha	
Sunflowers		All States	1.2 L/ha	1.5 L/ha	1.7 L/ha	Spray between 4 weeks and just before sowing takes place. Refer Incorporation Table 3, 4 or 5 for method of incorporation.
Lupins						Spray between 4 weeks and just before sowing takes place. Refer Incorporation Table 6 for method of incorporation.
	Annual Grasses and Broadleaf Weeds	NSW, ACT, Vic, Qld only	800 mL/ha plus 1.7 kg/ha of 900 g/kg Simazine DF			Use a low volume boom applying 50 - 100 litres spray mixture per hectare. Apply to bare moist soil and incorporate to a depth of 5cm just prior to sowing the crop. Incorporate within 4 hours of application. Do not apply to a ridged soil.

GENERAL INSTRUCTIONS
THIS PRODUCT MUST BE INCORPORATED INTO THE SOIL WITHIN 4 HOURS OF APPLICATION. EXCEPT IN WESTERN AUSTRALIA WHERE THE CROP IS SOWN WITH MINIMUM TILLAGE SOWING EQUIPMENT (FITTED WITH KNIFE POINTS OR BLADES LESS THAN 12MM WIDE, USUALLY WITH PRESS WHEELS) WHERE APPLICATION MAY OCCUR UP TO 24 HOURS BEFORE INCORPORATION BY THE SOWING PROCESS.

INCORPORATION TABLE

- Prior to furrowing out: - 2 workings at an angle required using Offset or Tandem disc harrows.
- After furrowing out: - 2 workings required using Go-Devil discs or Lilliston cultivators set at 10 cm depth.
- Rotary Hoe: - 1 working required at 5-7.5cm depth. Sugar Cane: - 7.5-13cm depth.
- Offset or Tandem Disc Harrows: - (preferably with spiked harrows in tandem) 2 workings at an angle required at 7.5-15cm depth at 6.5-10km per hour.
- Heavy Diamond or Stump Jump Harrows: (weighted 20-30kg per section) at 10-13km/hr. Cross work with combine at 5-7.5cm depth at speed 6.5-10km per hour.
- Weighted Heavy Diamond or Stump Jump Harrows: (weighted with 20-30kg per section) at 10-13km/hr. Cross work with combine at 5-7.5cm depth at speed of 10-13km/hr.
- Disc Retoon Cultivator: - 2 workings needed with discs and cultivator set at 7.5-13cm depth.
- Offset or Tandem Disc Harrows: - set at 7.5-15cm depth. A second discing is required working in opposite direction with discs set to throw treated soil into tree or vine row.
- Rotary Hoe: - 1 working needed at 5-10cm depth.
- Offset Discs (Bumpers): - 2 workings needed at depth of 7.5-13cm.
- Incorporation by Sowing (IBS) on suitably prepared seedbed with heavy diamond harrows trailing or as a separate operation.
- Post-sowing/Pre-emergence: Use heavy diamond harrows cross working at right angles to the direction of sowing. Do not attempt this method of incorporation on poorly prepared, clumpy or cloddy soils.
- Incorporation by Sowing (IBS) with knife or blade points. Use press wheels to avoid dragging treated soil back into the seed furrow. Maintain slow to moderate speed to ensure that soil throw is not into adjacent furrows. Note – (a) Knife or blade point systems can result in poor weed control in the seed furrows as chemical displacement from this zone occurs. Stubble coverage above 40-50% ground cover can reduce weed control below acceptable levels. (b) A Knife or blade point is 12mm or less, has no wings, inverted T or blade, and is generally placed on a minimum 20 cm tyre spacing.

MIXING

This product is an emulsifiable concentrate which mixes readily with water. Add the recommended amount to the spray tank during filling operation and apply 70-450L of water/ha (broadcast basis) dependent on soil type and stubble coverage level. For minimum tillage/stubble retention seeding systems use of the higher water volumes may help reduce the impact of stubble.

Ensure adequate agitation is continued throughout the operation. Leaving the made up spray mixture for long periods of time without agitation is not recommended.

Under hot conditions or where possible spray and incorporate into the soil in one operation. Delay may cause inferior weed control. Use properly calibrated standard low pressure (170-340 kilopascal) boom type sprayer with fan tips.

CONDITIONS FOR BEST RESULTS

This product must be thoroughly incorporated as recommended. Soil should be worked and free of weeds at time of application. Product effectiveness may be reduced by inadequate incorporation, high organic matter, excess clods, crop or trash residues, stones or other foreign matter in areas of unnaturally high weed seed population such as header tracks or livestock rest areas. Trifluralin is volatile and disappears from exposed surfaces. Loss is hastened by high temperatures, winds or warm moist soil.

Integrated Weed Management:

The use of Integrated Weed Management techniques in conjunction with CONTENDER 480 Selective Herbicide are always recommended. Agronomic practices that reduce the weed seed bank in the soil prior to the use of CONTENDER 480 Selective Herbicide will result in higher weed control levels from CONTENDER 480 Selective Herbicide. Failure to use Agronomic and Integrated Weed Management practices that reduce the weed seed bank in the soil will result in higher weed seed populations. Paddocks with excessively high weed seed banks may have sufficient weed numbers surviving such that final weed control may be considered below a commercially acceptable level and additional herbicide treatments may be necessary. The use of Integrated Weed Management techniques will also reduce the potential for the development or survival of Group D herbicide resistance weed biotypes.

WILD OATS

Germinating wild oat seeds lying on soil surface will be controlled. Therefore, specific wild oat control is only possible with shallow cultivation. Poor control will occur on self mulching soils and all soil types where deep cultivation is practised.

COMPATIBILITY

This product may be mixed in the spray tank with:
Herbicide: 500g/L Triallate, 750g/kg Chlorsulfuron WDG, 750g/kg Triasulfuron, 900g/kg Diuron DF, 900g/kg Simazine DF, Quash 250 Herbicide, Broadstrike*, Spinnaker*, Bladex*, 750g/kg Metribuzin DF.
Insecticides: Chlorpyrifos, Endosulfan 350EC.

NOTE:

- Information on compatibility is understood to be correct at the time of publication, however products may vary from time to time, therefore a small scale compatibility test should carried out before mixing in the spray tank.
- Observe any mixing sequence instructions for tank mix products.

EQUIPMENT MAINTENANCE AND USAGE

Keep the spray unit for herbicides only if possible. Otherwise, spray tanks, pumps, lines and nozzles should be thoroughly rinsed several times with clean water following application. Spraymate Tank & Equipment Cleaner is suitable for this purpose and will also remove Trifluralin stains.

RESISTANT WEEDS WARNING

GROUP D HERBICIDE

CONTENDER 480 Selective Herbicide is a member of the Dintrionilines group of herbicides. CONTENDER 480 Selective Herbicide has the inhibitors of tubulin formation mode of action. For weed resistance management CONTENDER 480 Selective Herbicide is a Group D herbicide. Some naturally-occurring weed biotypes resistant to CONTENDER 480 Selective Herbicide and other Group D 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 CONTENDER 480 Selective Herbicide or other Group D herbicides.

Since the occurrence of resistant weeds is difficult to detect prior to use, Hextar Chemicals Pty. Ltd. accepts no liability for any losses that may result from the failure of CONTENDER 480 Selective Herbicide to control resistant weeds.

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

DO NOT use in high winds.
DO NOT exceed rates specified, to avoid crop damage.
DO NOT plant sensitive grasses such as oats, sorghum, millets, Phalaris spp., ryegrass or wheat for 12 months following the use of this product except where wheat follows wheat or other winter crops.

1. FIELD CROPS (CONT)

Situation & Crop	Weeds	State	Rate/ soil type			Critical Comments
			Light	Medium	Heavy	
Lupins (cont')	Capeweed, Turnip, Radish, Doublegee and Suppression of Annual Ryegrass and Wild Oats	WA only	1.25 L/ha plus 560-830 g/ha of 900 g/kg Simazine DF			Rate for Yellow Sands. Refer Incorporation Table direction 11, 12 or 13.
	As above plus suppression of Brome Grass		1.25 L/ha plus 1.1 kg/ha of 900 g/kg Simazine DF			Rate for all other soil types. Apply to bare moist soil and incorporate to a depth of 5 cm just prior to sowing. Incorporation should be made within 4 hours of application. Application should not be made to ridged or excessively cloddy soil. For Simazine to be effective, sufficient rainfall (20-30mm) to wet the soil through the weed root zone is necessary within 2-3 weeks of application. Results with Simazine can be variable if seasonal conditions are dry prior to sowing and Lupins are sown into dry or low moisture seed beds.
	Capeweed, Doublegee, Wild Radish, Wild Turnip plus suppression of Annual Ryegrass, Wild Oats and Brome Grass		1.25 L/ha plus 1.1 kg/ha 900 g/kg Diuron DF			DO NOT use on white or grey sands as severe crop damage may result. Use tank mix of Diuron & Trifluralin where Annual Ryegrass is present. Apply at pre-sowing stage when using incorporate table method 13. For post-sowing pre-emergent application, ensure seed is adequately covered with soil. Refer to Incorporation Table 12.
Faba Beans	Red & White Fumitory, Rough Poppy, Wireweed, Barley Grass, Canary Grass, Annual Ryegrass, Sand Fescue, suppression of Deadnettle, Speedwell, Three Cornered Jack, Yellow Burr Weed, Brome Grass, Cereal Oats, soil surface Wild Oats	SA only	1.25-1.7 L/ha	1.25-1.7 L/ha	1.25-1.7 L/ha	Spray between 4 weeks and just before sowing takes place. Refer Incorporation Table 6 for method of incorporation.
	Above weeds plus Capeweed, Common Fumitory, Geranium, Indian Hedge Mustard, Sheepweed, Shepherd's Purse, Toadrush, Turnips, suppression of Ice Plant, Soursob		1.25 L/ha	1.7 L/ha plus 1.1-2.2 kg/ha of 900 g/kg Simazine DF		Use a low volume boom applying 50-100 L/ha spray mixture. Apply to bare moist soil and incorporate to a depth of 5cm just prior to sowing the crop. Incorporate within 4 hours of application. Do not apply to a ridged soil.
Tobacco	Summer Grass, Crowsfoot Grass, Red Natal Grass, Love Grass, Button Grass, Rhodes Grass, Pigweed	Qld only	800 mL/ha	1.2 L/ha	-	Apply to soil 3 - 4 weeks prior to transplanting. The longer period to be used for applications made during June & July. Incorporate to a depth of 10 cm.
	Crowsfoot Grass	NSW, ACT only	800 mL/ha	1.2 L/ha	1.2 L/ha	Apply to light sandy soil 14 to 21 days before transplanting. Do not incorporate to a depth greater than 6cm. Apply to loam (medium soil) 14 to 21 days before transplanting. DO NOT incorporate to a depth of greater than 6cm.
Wheat, Barley & Triticale	Annual Ryegrass, Wireweed (Hogweed), Phalaris spp.	NSW, ACT, WA, Vic only	800 mL/ha	800 mL/ha	800 mL/ha	Apply 1-4 weeks before sowing. Sowing depth should be at least 5cm. Use cover harrows behind combine. Ground should be left flat. DO NOT use pre-sowing on self-mulching soils, as damage may occur from wheel tracking and poor control of wild oats. Refer Incorporation Table 6 for suitable method of incorporation.
	Fumitory	WA only				
	Canary Grass	Vic only				
1. Pre-Sowing Only	As above, except for Fumitory	Vic only				Pre-sowing – Apply more than 4 weeks before sowing to prevent crop damage. Post-Sowing- Apply within 2 days after sowing to well prepared seedbed. Refer Incorporation Table 6 for suitable method of incorporation.
2. Pre-Sowing & Post Sowing (self-mulching soils)						
Wheat	Annual Ryegrass, Paradoxa Grass (Canary grass), soil surface Wild Oats, Wireweed (Hogweed)	Qld only	800 mL/ha	800 mL/ha	800 mL/ha	On non self-mulching soils apply 1-4 weeks before sowing. Sowing depth should be at least 5cm. Use cover harrows behind combine. Ground should be left flat. On self-mulching soils, as above except apply more than 4 weeks before sowing to prevent crop damage. Refer Incorporation Table 6 for method of incorporation.
						Apply to self-mulching and non self-mulching soils from 1-4 weeks before sowing. Sowing depth should be at least 5cm. Use cover harrows behind combine. Ground should be left flat. Refer Incorporation Table 6 for suitable method of incorporation.
Barley						

1. FIELD CROPS (CONT')

Situation & Crop	Weeds	State	Rate/ soil type			Critical Comments
			Light	Medium	Heavy	
Wheat, Triticale, Rye	Annual Ryegrass, Red & White Fumitory, Phalaris spp., Wireweed, suppression of Deadnettle, Rough Poppy, Yellow Burr Weed	SA only	800 mL/ha	800 mL/ha	800 mL/ha	Apply 1-4 weeks before sowing. Sowing depth should be at least 5cm. Use cover harrows behind combine. Ground should be left flat. DO NOT use pre-sowing on self mulching soils as damage may occur from wheel tracking and poor control of wild oats. Refer Incorporation table 6 for method of incorporation.
	As above for SA plus Sand Fescue and suppression of Brome Grass		1.25 L/ha	1.25 L/ha	1.25 L/ha	
Barley						
Wheat & Triticale only	Annual Phalaris	NSW, ACT only	800 mL/ha plus 20 g/ha Chlorsulfuron 750 WDG Herbicide			If possible, spray and incorporate into the soil in one operation. If this is not possible incorporation should take place within 4 hours of spraying. Delay may cause inferior weed control.

2. FIELD CROPS: FOR USE IN NO-TILL/MIN-TILL CROPPING SYSTEMS, PRE-SOWING OR INCORPORATED BY SOWING (IBS). (Using Incorporation Table 13)

Situation & Crop	Weeds	State	Rate/ soil type			Critical Comments
			Light	Medium	Heavy	
Wheat, Barley and Triticale	Annual Ryegrass, Wireweed, Phalaris spp, Fumitory	WA, SA Vic, NSW, only	1.5 L – 2L/ha			Use higher rate on lighter Sandy and Sandy Loam Soils. DO NOT use on heavy soils. Use with knife/blade point sowing equipment. Use higher rate for heavier stubble coverage. Stubble coverage above 40-50% ground cover can reduce weed control below acceptable levels. Refer table 13 for method of incorporation.
						WA only: Application can occur 0-24 hrs prior to incorporation by sowing (within 12 hours). Application 12-24 hours before sowing may be more adversely affected by above average soil moisture, warm winter temperature and high weed seed densities. These factors individually or combined may reduce final weed control levels.
Chickpeas		WA only	1.25-1.7 L/ha plus 1.1 kg/ha Simazine DF			Incorporate as per Incorporation Table 13.

3. VEGETABLES, ORCHARDS AND VINEYARDS

Situation & Crop	Weeds	State	Rate/ soil type			Critical Comments
			Light	Medium	Heavy	
Transplants Only Broccoli, Cabbage, Cauliflowers, Tomatoes	Annual Ryegrass, Barnyard Grass, Canary Grass, Caltrop (Bullhead Yellow Vine), Crab Grass, Mossman River Grass (Innocent Grass), Pigweed, Redroot (Amaranthus), Redshank (Prince of Wales Feather), Summer Grass, soil surface Wild Oats, Winter Grass, Wireweed (Hogweed)	All States	1.2 L/ha	1.7 L/ha	2.3 L/ha	Spray between 4 weeks and just before sowing takes place. Refer Incorporation Table 3, 4 or 5 for suitable method of incorporation.
			1.2 L/ha	1.5 L/ha	1.7 L/ha	
			1.2 L/ha	1.7 L/ha	2.3 L/ha	
			1.2 L/ha	1.7 L/ha	2.3 L/ha	
Direct Seeded Only	From seed only: Columbus Grass, Guinea Grass, Johnson Grass, Liverseed Grass (<i>Urochloa</i>)	Vic, Qld only				
Broccoli, Brussels Sprout, Cabbage			All States			
Cauliflower			Vic only			
Carrots			All States			
Chicory						
Green Beans						
Orchards and Vineyards		Qld, SA, WA, Vic, Tas only	1.2 L/ha	1.7 L/ha	2.3 L/ha	Apply to new planting during pre plant cultivation. Apply to established crops in spring after weeds and green manure crop has been ploughed into ground. Refer Incorporation Table 8 or 9 for suitable method of incorporation.

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

WITHHOLDING PERIOD: NOT REQUIRED WHEN USED AS DIRECTED.

DO NOT plant oilseed poppies when a detectable residue of Trifluralin is present in the soil. Levels as low as 0.02ppm may interact with other unfavourable factors (moisture, stress, disease etc.) to reduce poppy growth and vigour.

DO NOT apply to orchards and vineyards after first flush of growth or when residues can lodge on or in fruit.

Reduced germination of wheat and barley may occur due to combination of following circumstances and the use of this product:

- Short coleoptiles cultivars
- Use of seed dressings (except Vitavax)
- Shallow or uneven seedling depth.

Drift Warning: DO NOT apply under meteorological conditions or from spraying equipment which could be expected to cause spray drift onto nearby susceptible plants, adjacent crops, crop lands or pastures.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT
DO NOT contaminate streams, rivers or waterways with the chemical or used containers.

STORAGE AND DISPOSAL
Store in closed, original container in a dry well-ventilated area, out of direct sunlight. Do not store below 5°C. Extended storage below 5°C can result in the formation of crystals on the bottom of the container. If crystallization does occur, store the container on its side at room temperature and rock occasionally until crystals re-dissolve. Ensure any crystals are dissolved before adding to the spray tank.
Triple or preferably pressure 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 bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and products should not be burnt.

110L Mini Bulk Returnable Container (110L only)
DO NOT tamper with the Mirco Matic valve or the security seal. DO NOT contaminate the drum with water or any foreign matter. After each use of the product, please ensure that the Micro Matic coupler, delivery system and hoses are disconnected, triple rinsed with clean water and drained accordingly. When the contents of the drum have been used, please return the empty drum to the point of purchase. The drum remains the property of Hextar Chemicals Pty. Ltd.

SAFETY DIRECTIONS
Harmful if swallowed. Will irritate the eyes and skin. Repeated exposure may cause allergic disorders. Sensitive workers should use protective clothing. Avoid contact with eyes and skin. Do not inhale spray mist. When opening the container and using the prepared spray, wear cotton overalls, buttoned to the neck and wrist and a washable hat and elbow length PVC gloves and face shield or goggles. 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 (Phone Australia 13 1126). If swallowed, DO NOT induce vomiting. Give a glass of water.

MATERIAL SAFETY DATA SHEET
Additional information is listed in the Material Safety Data Sheet (MSDS) which is available from the supplier.

NOTICE TO BUYER
The use of CONTENDER 480 Selective Herbicide being beyond the control of the manufacturer, no warranty expressed or implied is given by Hextar Chemicals Pty. Ltd., regarding its suitability, fitness or efficiency for any purpose for which it is used by the buyer, whether in accordance with the directions or not and Hextar Chemicals Pty. Ltd. accepts no responsibility for any consequence whatsoever resulting from the use of this product.

*Other registered trademarks

In a Transport
Emergency Dial
000
Police or Fire Brigade

* Not a registered trademark of Hextar Chemicals Pty. Ltd.



HEXTAR CHEMICALS PTY. LTD. (ACN No.: 114 525 709)
Suite 308, Level 3, 365 Little Collins Street,
MELBOURNE VIC 3000
Telephone: (03) 9670 0311 Fax: (03) 96701977

APVMA Approval No. 64137/0809

Name of File: 64137_47637_leaflet_MPL_V1.pdf
Dimensions: 36 cm (W) x 46.2 cm (H)
Scale of Print: A4 55% A3 80%