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

**Apparent** 

## 2,4-D Ester 680

### HERBICIDE

ACTIVE CONSTITUENT: 680g/L 2,4-D  
present as the 2-ETHYLHEXYL ESTER

**GROUP 4 HERBICIDE**

A specially formulated low volatile herbicide for selective control of various weeds in crops, pastures and non-agricultural areas according to the directions for use table.

**THIS IS A PHENOXY HERBICIDE THAT CAN CAUSE SEVERE DAMAGE TO NATIVE VEGETATION AND SUSCEPTIBLE CROPS SUCH AS COTTON, GRAPES, TOMATOES, OILSEED CROPS AND ORNAMENTALS**

**IMPORTANT: Read this booklet before use.**

APVMA Approval No. 65153/128258

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## GENERAL RESTRAINTS

DO NOT exceed maximum application rate of 6.6 L/ha (4500 g ae/ha).

DO NOT exceed the maximum daily application rate by backpack spraying of 5.9L/day.

DO NOT apply if heavy rains or storms are forecast within 3 days.

DO NOT irrigate to the point of runoff for at least 3 days after application.

DO NOT apply if crop or weeds are stressed due to dry or excessively moist conditions.

Additional USAGE restrictions apply in some crops, states and seasons. See restriction tables 1, 2, 3, 4 and 5.

## SPRAY DRIFT RESTRAINTS

DO NOT apply by a vertical sprayer.

Specific definitions for terms used in this section of the label can be found at [www.apvma.gov.au/spraydrift](http://www.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**. The **buffer zones** in the relevant buffer zone table below provide guidance but may not be sufficient in all situations.

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 or two hours after sunrise.

## BOOM SPRAYERS

DO NOT apply by a boom sprayer unless the following requirements are met:

- Spray droplets not smaller than a VERY COARSE **spray droplet size category**
- minimum distances between the **application site** and downwind **sensitive areas** (see 'Mandatory buffer zones' section of the following table titled 'Buffer zones for boom sprayers') are observed

### Buffer Zones for Boom Sprayers

Application rate (ha)	Boom Height above target canopy	Mandatory buffer zones (distances given in metres)				
		Bystander Areas	Natural Aquatic Areas	Pollinator Areas	Vegetation Areas	Livestock Areas
Up to 800 mL (560 g ae/ha)	0.5m or lower	0	10	0	25	0
	1.0m or lower		40		55	
Up to 1.7L (1150g ae/ha)	0.5m or lower		30		35	
	1.0m or lower		60		100	
Up to 2.4 L (1620 g ae/ha)	0.5m or lower		30		45	
	1.0m or lower		80		140	
Up to 4.7 L (3180 g ae/ha)	0.5m or lower		50		100	
	1.0m or lower		160		375	
Up to 6.6 L (4500 g ae/ha)	0.5m or lower		75		150	
	1.0m or lower		Not supported		Not supported	

## AIRCRAFT

DO NOT apply by aircraft unless the following requirements are met:

- spray droplets not smaller than a Very Coarse **spray droplet size category**
- for maximum release height above the target canopy of 3 metres or 25 per cent of wingspan or 25 per cent of rotor diameter, whichever is the greatest, minimum distances between the application site and downwind sensitive areas (see 'Mandatory buffer zones' section of the following table titled 'Buffer zones for aircraft') are observed.

## Buffer Zones for Aircraft

Application rate (ha)	Aircraft type	Mandatory buffer zones (distances given in metres)				
		Bystander Areas	Natural Aquatic Areas	Pollinator Areas	Vegetation Areas	Livestock Areas
Up to 820 mL (560 g ae/ha)	Fixed wing	0	120	0	170	0
	Helicopter		85		120	
Up to 1.7L (1150g ae/ha)	Fixed wing		190		300	
	Helicopter		130		190	
Up to 2.4 L (1620 g ae/ha)	Fixed wing		240		400	
	Helicopter		160		240	
Up to 4.7 L (3180 g ae/ha)	Fixed wing		Not Supported		Not Supported	
	Helicopter		275		400	
Up to 6.6 L (4500 g ae/ha)	Fixed wing		Not Supported		Not Supported	
	Helicopter		350		625	

## Timing and Usage Restriction Appendices

### Appendix 1: Timing restrictions for spraying peanuts

Situation	Rate (L/ha)	Region	Timing Restriction DO NOT APPLY DURING THE MONTHS	
Broadcast spraying, prior to sowing (peanuts)	Up to 1.3L/ha	Cape York	October and November	
		Northern Gulf	October and November	
		Northern Territory	October and November	
		Wet Tropics	No timing restrictions	
		Burdekin	October	
		Mackay/Whitsunday	September to December	
		Mary/Burnett	October to November	
		SE Queensland	August to May	
Band spraying, post-sowing preemergence (peanuts)	Up to 1.6L/ha	Cape York	October and November	
		Northern Gulf	October and November	
		Northern Territory	October and November	
		Wet Tropics	No timing restrictions	
		Burdekin	October	
		Mackay/Whitsunday	August to December	
		Mary/Burnett	September to November	
		SE Queensland	<b>Use not supported</b>	
Band spraying, post-sowing preemergence (peanuts)	Up to 1.6L/ha	Queensland dryland	No timing restrictions	
		Cape York	No timing restrictions	
		Northern Gulf	October and November	
		Northern Territory	October and November	
		Wet Tropics	No timing restrictions	
		Burdekin	No timing restrictions	
		Mackay/Whitsunday	No timing restrictions	
		Mary/Burnett	No timing restrictions	
		SE Queensland	October to January	

Situation (cont)	Rate (L/ha)	Region	Timing Restriction DO NOT APPLY DURING THE MONTHS
Broadcast spray, post-sowing preemergence (peanuts)	Up to 3.3L/ha	Queensland dryland	June to August
		Cape York	October and November
		Northern Gulf	October and November
		Northern Territory	October and November
		Wet Tropics	October to December
		Burdekin	September and October
		Mackay/Whitsunday	August to December
		Mary/Burnett	April to January
		SE Queensland	<b>Use not supported</b>

#### Appendix 4: Application restrictions for TURF

**DO NOT apply above maximum rate (L/ha) below OR label rate, whichever is LOWEST**

Turf	State	Rate (L/ha)
	Queensland & NT	2.9
	New South Wales & ACT	2.9
	Victoria	2.3
	Tasmania	2.3
	South Australia	2.3
	Western Australia	3.7

**If applying to golf courses in Tasmania, DO NOT apply to fairways adjacent to natural water bodies.**

#### Appendix 5: Risk mitigation measures for Dryland cropping, pre-emergent uses

Situation	Risk Mitigation Measures
Dryland cropping, Preparatory spray	Only apply in no-till farming systems (Tasmania, South Australia)
Winter cereals, pre-emergence uses	Only apply in no-till farming systems (Tasmania, South Australia, Western Australia)
Summer cereals, pre-emergent uses	Only apply in no-till farming systems (Tasmania, South Australia)

#### Appendix 2: Application and timing restrictions for application to pastures

**DO NOT apply above maximum rate (L/ha) below OR label rate, whichever is LOWEST**

	State	Summer	Autumn	Winter	Spring
Pastures (prior to sowing, conservation tillage)	Queensland & NT	4.7	4.7	4.7	4.7
	New South Wales & ACT	4.7	4.7	4.7	4.7
	Victoria	0.5	1.5	4.7	1.5
	Tasmania	0.5	1.1	3.3	1.5
	South Australia	1.1	1.5	4.7	3.3
	Western Australia	1.5	3.3	4.7	3.3
Pastures (established)	Queensland & NT	6.6	6.6	6.6	6.6
	New South Wales & ACT	6.6	6.6	6.6	6.6
	Victoria	0.9	1.8	6.6	3.3
	Tasmania	0.6	1.5	4.7	2.9
	South Australia	1.3	2.9	6.6	4.7
	Western Australia	3.3	4.7	6.6	4.7

#### Appendix 3: Timing restrictions for spraying SUGARCANE

Situation	Rate (L/ha)	Region	Timing Restriction DO NOT APPLY DURING THE MONTHS
	Up to <b>1.2L/ha</b> Up to <b>2.4L/ha</b>	All	No timing restriction
		Wet Tropics	No timing restriction
		Burdekin	October
		Mackay/Whitsunday	September to December
		Mary/Burnett	August to December and April to May
		Northern NSW	No timing restriction

## DIRECTIONS FOR USE

**Table 1. FIELD CROPS**

SITUATION AND CROP	WEEDS CONTROLLED	STATE	RATE/ha
Wheat, Barley	Refer to Weed Table	VIC only	210 - 800mL
		SA only	230 - 800mL
		QLD, NSW, ACT only	410 - 800mL
		TAS only	620 - 800mL
		WA only	800mL
Triticale		QLD, NSW, ACT only	410 - 800mL
		SA only	240 - 820mL
		VIC only	210 - 800mL
Cereal Rye		QLD, NSW, ACT only	410 - 800mL
		VIC only	210 - 800mL
Sugar Cane		QLD only	1.15 - 2.4L
		ALL STATES	210 - 800mL
Stubble/Fallow Spray Prior to Direct Drilling or Sowing. Winter Cereals, Grain Legumes (Peanuts QLD only), Canola		ALL STATES	1.7L
Harvest Aid or Salvage Spray - Winter Cereals	Broadleaf Weeds	ALL STATES	1.7L
	Refer to Weed Table		
Potatoes Pre-harvest Preparation	Broadleaf Weeds such as Clover, Variegated Thistle and Cruciferous weeds	VIC, TAS only	1.15 - 2.4L

**Table 2. PASTURES AND NON AGRICULTURAL USE**

SITUATION AND CROP	WEEDS CONTROLLED	STATE	RATE/ha	
Improved Pasture containing Clovers	Refer to Weed Table	QLD, NSW, ACT, TAS, SA only	410 - 800mL	
Pastures – Non legumes, Rights of Way and Industrial		QLD, NSW, ACT, TAS, SA, WA only	800mL - 4.7L	
		VIC only	800mL - 6.6L	
			70-620mL	
Pastures – Direct Drilling or Surface Sowing	Charlock, Clover, Medics, Mustards, Paterson's Curse, Safron, Slender, Variegated and Spear Thistles, Turnip Weed, Wild Radish, Wild Turnip	QLD, NSW, ACT, VIC, TAS, SA, WA only	800mL - 1.5L (Aerial Application)	
			800mL - 1.5L (Ground Application)	
		As Above plus: Capeweed, Wireweed, Storksbill/Erodium, Flatweed, Horehound (seedlings), Skeleton Weed, Nodding or Star Thistles		3.3 - 4.7L (Aerial or Ground)
				St John's Wort

CRITICAL COMMENTS	USAGE RESTRICTIONS
<p><b>CROP STAGES: ALL CEREALS</b></p> <p>Variations between varieties do occur. Check sensitivity and growth stages of varieties before applying. Damage may result if applied too early.</p> <p><b>VIC only:</b> Apply at tillered to boot stages.</p> <p><b>NSW, ACT only:</b> Apply after when the first node can be felt at the base of a tiller and before swelling of the head can be felt in a tiller.</p> <p><b>QLD only:</b> Apply from mid-tillering (5 to 6 fully emerged main stem leaves plus one or more tillers) to before boot stage (visible swelling of the head at the top of the main stem).</p> <p><b>SA, TAS only:</b> Apply from completion of tillering to early jointing stage.</p> <p><b>WA only:</b> Apply from the 5 leaf stage up to jointing stage (Zadoks 15 - 33). Apply only at 6 leaf stage for Cranbrook and Jacup wheats (Zadok 16) to avoid possible damage.</p> <p>Post-emergence.</p>	
<p>Observe the plant back periods given in the table in this leaflet. Must be tank mixed with a knockdown herbicide such as Glyphosate 450 g/L, paraquat 250 g/L Herbicide or paraquat/diquat herbicide. Select appropriate rate from the weed table. For Skeleton Weed, spraying should only be done 6 - 8 weeks before anticipated sowing date and subsequent cultivation limited to a minimum</p>	<p>USAGE RESTRICTIONS APPLY. See APPENDIX 3: Timing restrictions for spraying sugarcane</p> <p>USAGE RESTRICTIONS APPLY. See APPENDIX 1: Timing restrictions for spraying peanuts and TABLE 5: Risk mitigation measures for Dryland cropping, pre-emergent uses</p>
<p>Apply after dough stage of crop. Interval between application and effectiveness is 10 - 20 days. For desiccation of green matter, estimate harvest date and apply spray approximately 14 days earlier. Rain between spraying and actual harvest can negate results.</p> <p><b>Note:</b> Where thistles are tall and branching above the crop, spraying can turn the branches down into the crop, presenting more stalks to cause header comb blockages. Spraying may increase seed contamination of harvest by accelerating maturity.</p> <p>DO NOT use with undersown legumes that have not set seed.</p>	
<p>Apply approximately 4 to 5 weeks before harvest after the potato haulms have dried off. Use the highest rate where weeds are more than 30cm in height. For boom spraying apply at least 100 litres of spray mixture per hectare. If grasses such as Rye Grass and Winter Grass are also present add amitrole 250 g/L herbicide.</p>	

CRITICAL COMMENTS	USAGE RESTRICTIONS
<p>Clover must be well covered by the grass or extensive damage may result.</p>	<p>USAGE RESTRICTIONS APPLY. See APPENDIX 2: Application and timing restrictions for application to pastures</p>
<p>Control of most perennial weeds, but due to the rooting habits of most species control may take a number of years. Damage may result to legumes in pasture.</p> <p>Boom spray.</p> <p>Spot spraying.</p>	
<p>Applying to young, actively growing weeds.</p> <p><b>Sowing:</b> DO NOT sow pasture seed for at least 21 days after application. If soil moisture is dry, delay sowing for at least 30 days.</p>	<p>USAGE RESTRICTIONS APPLY. See APPENDIX 2: Application and timing restrictions for application to pastures</p>

SITUATION AND CROP	WEEDS CONTROLLED	STATE	RATE/ha
Pastures – Direct Drilling or Surface Sowing	All of above plus grasses	QLD, NSW, ACT, VIC, TAS, SA, WA only	As above plus 2.2 DPA sodium salt or Glyphosate

#### SPOT SPRAYING

SITUATION AND CROP	WEEDS CONTROLLED	STATE	RATE/ha
Spot Spraying (All Situations)	Refer to Weed Table	ALL STATES	1/100th of rate on Weed Table per 10L water per 100m <sup>2</sup>

CRITICAL COMMENTS	USAGE RESTRICTIONS
Applying to young, actively growing weeds. <b>Sowing:</b> DO NOT sow pasture seed for at least 21 days after application. If soil moisture is dry, delay sowing for at least 30 days.	USAGE RESTRICTIONS APPLY. See APPENDIX 2: Application and timing restrictions for application to pastures

CRITICAL COMMENTS	
Each 10L of mix will cover 100m <sup>2</sup> (1/100th ha) eg if rate in weed table is 1.4L use 14mL/10L water. Apply through knapsack. Thorough wetting of weed is essential.	

**NOT TO BE USED FOR ANY PURPOSE, OR IN ANY MANNER, CONTRARY TO THIS LABEL**

**UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION**

**IN TASMANIA, THIS PRODUCT MAY ONLY BE USED FROM 15 APRIL TO 15 SEPTEMBER**

**UNLESS OTHERWISE PERMITTED BY THE REGISTRAR OF PESTICIDES.**

**WITHHOLDING PERIOD:**

**PASTURES, CEREAL CROPS: DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 7 DAYS AFTER APPLICATION.**

**CROP HARVEST WITHHOLDING PERIOD: NOT REQUIRED WHEN USED AS DIRECTED.**

#### WEED TABLE

**NOTE:** Where weeds are to be sprayed in a CROP or PASTURE, use only the rates given for the crop in the table below. In most cases this will give control, however some hard to kill weeds or those in advanced stages of growth may only be suppressed eg *Rumex* spp. (Docks) and *Polygonum* spp. (Wireweed, Climbing Buckwheat) are killed to ground level only.

#### APPLICATION RATE PER HECTARE

WEEDS CONTROLLED	Crop						Pasture – Non Legume		CRITICAL COMMENTS
	VIC	SA	TAS	NSW, ACT	QLD	WA	VIC	NSW,ACT, TAS, SA, QLD, WA only	
<i>Amaranthus</i> spp.	-	-	-	800mL	-	-	-	-	
Angled Onion	-	-	-	-	-	-	3.3L	0.8 - 1.7L	Spray when buds are forming or early flowering.
Apple Sodom	-	-	-	-	-	-	-	2.9 - 3.3L	
Bathurst Burr	-	-	-	800mL	-	-	1.7 - 3.3L	1.7 - 3.3L	Spray from seedling to pre-flowering. Use higher rate as plant matures.
Black Knapweed	-	-	-	-	-	-	3.3L	-	Spray before flowering. DO NOT cultivate these infestations.
Buffalo Burr	-	-	-	-	-	-	-	800mL - 1.5L (Not Qld & WA)	Spray from seedling to pre-flowering. Use higher rate as plant matures.
California Burr	-	-	-	800mL	-	-	1.7 - 3.3L	1.15 - 1.7L (Not SA)	Spray from seedling to pre-flowering. Use higher rate as plant matures.
Caltrop	-	-	-	620mL – 800mL	-	-	1.7 - 3.3L	-	Spray from seedling to pre-flowering. Use higher rate as plant matures.
Cape Tulip	-	-	-	-	-	1.15L	3.3L	1.7 - 3.3L	Spray before flowering.

WEEDS CONTROLLED	Crop						Pasture – Non Legume		CRITICAL COMMENTS
	VIC	SA	TAS	NSW, ACT	QLD	WA	VIC	NSW,ACT, TAS, SA, QLD, WA only	
Capeweed	800mL	800mL	800mL	530 – 800mL	-	-	-	2.5 - 3.3L	Spray up to rosette stage.
Charlock	410mL	410mL	800mL	410mL	-	-	-	800mL	Spray up to rosette stage.
Clover	-	-	-	620mL – 800mL	-	-	-	800mL	
Colocynth	-	-	-	-	-	-	3.3L	-	Spray at seedling stage only.
Deadnettle	-	-	-	800mL	-	-	-	-	
Devil's Claw	-	-	-	800mL	-	-	1.3L	1.15 - 1.7L (Not SA)	Spray prior to pods forming.
Dock	800mL	800mL	-	-	800mL	800mL	-	1.7 - 2.5L	Spray at rosette stage to kill top growth only.
Fat Hen	-	-	-	410 – 800mL	-	-	-	-	
Flatweed	-	-	-	800mL	-	-	-	2.5 - 3.3L	
Fumitory (red)	-	800mL	-	800mL	-	-	-	2.5 - 3.3L	Spray up to rosette stage.
Fumitory (white)	800mL	410mL	-	800mL	-	-	-	2.5 - 3.3L	Spray up to rosette stage.
Galvanised Burr	-	-	-	-	-	-	4.7L	4.7L (Not Qld & WA)	Spray from seedling to pre-flowering.
Goosefoots	-	-	-	800mL	-	-	-	-	

WEEDS CONTROLLED	Crop						Pasture – Non Legume		CRITICAL COMMENTS
	VIC	SA	TAS	NSW, ACT	QLD	WA	VIC	NSW,ACT, TAS, SA, QLD, WA only	
Hard Head or Russian Knapweed	-	-	-	-	-	-	3.3 - 5.2L	-	Spray before flowering.
Hogweed, Wireweed	800mL	800mL	-	800mL	800mL	-	-	1.15 - 1.7L (Not SA)	Spray up to rosette stage.
Hoary Cress, Whiteweed	-	800mL	800mL	800mL	-	-	1.7 - 3.3L	1.7 - 2.1L	Spray from late rosette to pre-flowering.
Horehound (seedlings)	-	800mL	-	-	-	840mL	-	1.7 - 3.3L	Late autumn to early spring.
Ironweed, Corn Gromwell	-	-	-	-	800mL	-	-	1.15 - 1.7L	
Khaki Weed	-	-	-	-	-	-	-	800mL - 1.15L (Not SA)	Spray young seedlings only.
Lincoln Weed	-	800mL	-	-	-	-	-	-	Autumn spray before sowing improves control.
London Rocket	-	-	-	-	-	570mL	-	1.6 - 2.5L (WA only)	
Lupins	800mL	-	-	410 – 800mL	-	-	-	-	Spray up to rosette stage.
Melilotus/Hexham Scent	800mL	800mL	-	-	800mL	-	-	1.15 - 1.7L	Spray up to rosette stage.
Melons – camel, paddy	-	-	-	410 – 800mL	-	-	-	-	
Mustards	330mL	230 – 800mL	800mL	410 - 900mL	620mL	620mL	3.3L	1.7 - 2.5L	Spray up to rosette stage.
Mexican Poppy	-	2.3 - 3.5L	-	800mL	-	840mL	-	800 mL - 1.15L (1.1 - 1.5L WA only)	Spray rosette stage and before flowering.
Mintweed	-	-	-	800mL	620mL	-	-	800mL-1.15L	Spray active seedlings only.
Muskweed	800mL	-	-	-	-	-	-	-	Spray up to rosette stage.
New Zealand Spinach	-	-	-	800mL	-	-	-	-	
Noogoora Burr	-	-	-	800mL	-	-	1.7 - 3.3L	1.7 - 3.3L	Spray seedling to pre-flowering.
Nut Grass	-	-	-	-	-	-	3.3 - 5.2L	-	Spray within 4 weeks of foliage emergence, repeat spray necessary.
Paterson's Curse	-	-	-	800mL	-	840mL	1.7 - 3.3L	800mL - 1.7L (1.15 - 1.5L WA only)	Spray seedling to rosette stage.
Poppy Wild	410mL	-	-	-	-	-	-	2.1 - 2.9L	Spray up to rosette stage.
Ragwort	-	-	-	-	-	-	3.3L	3.3L	Spray at rosette to cabbage stage.
Rapeseed	800mL	-	-	410 – 800mL	-	-	-	-	Spray up to rosette stage.
Rapistrum	-	-	-	-	-	570mL	-	840mL (WA only)	
Rough Poppy	-	410mL	-	410 – 800mL	-	-	-	800mL	Spray young seedlings only.

WEEDS CONTROLLED	Crop						Pasture – Non Legume		CRITICAL COMMENTS	
	VIC	SA	TAS	NSW, ACT	QLD	WA	VIC	NSW,ACT, TAS, SA, QLD, WA only		
St. John's Wort	-	-	-	-	-	-	3.3 - 5.2L	3.3 - 4.7L	Spray before flowering. Spray before plants are 40 cm high.	
Safflower	-	-	-	410 - 800mL	-	-	-	-		
Sand Mustard/Sand Rocket	-	-	-	-	-	-	-	3.3L	Spray before flowering.	
Shepherd's Purse	-	-	-	800mL	-	-	-	-		
Silver Leaf Nightshade	-	-	-	-	-	-	-	3.3L	Spray at flowering. Fallow land: controls top growth only.	
Skeleton Weed	-	800mL	-	800mL	-	-	3.3L	1.15 - 1.7L	Spray rosettes before aerial growth commences.	
Stingless Nettle (Deadnettle)	-	800mL	800mL	-	-	-	-	2.1 - 2.5L		
Stinging Nettle	800mL	-	-	-	-	-	-	-	Spray up to rosette stage.	
Stinkwort	-	-	-	800mL	-	-	-	1.7 - 3.3L	Spray younger plants. Use higher rate as plants mature.	
Storksbill/Erodium	-	-	-	800mL	-	-	-	-		
Sunflower Seedlings	800mL	-	-	410 – 800mL	620mL	-	-	-	Spray multiple leaves.	
Thistles:	-	-	-	-	-	-	-	-		
- Golden	-	-	-	-	-	-	-	3.3L	Spray at rosette stage.	
- Nodding	-	-	-	-	-	-	-	3.3L	1.15 - 1.7L	Spray at rosette stage to pre-flowering.
- Saffron	620mL	800mL	-	410 – 800mL	800mL	800mL	800mL - 1.7L	840mL - 3.3L (WA only)	Spray up to rosette stage.	
- Sheep	-	-	-	-	-	840mL	-	840mL - 3.3L (WA only)		
- Slender, Shore	-	-	-	800mL	800mL	-	-	1.7 - 3.3L	800 mL - 3.3L	Spray at rosette stage.
- Soldier	-	-	-	-	-	-	-	3.3L	-	Spray at rosette stage
- Spear	800mL	-	-	800mL	-	-	-	800mL - 2.5L	1.15 - 2.1L	Spraying at seedling to rosette stage. Use higher rate as plants mature (pastures).
- Stemless	-	-	-	-	-	-	-	3.3L	2.5 - 3.3L	Spray at rosette stage to flowering.
- St Barnaby's	-	-	-	-	-	-	-	-	1.15 - 1.7L	
- Star	-	-	-	800mL	-	-	-	1.7 - 3.3L	1.15 - 1.7L	Spraying at seedling to rosette stage. Use higher rate as plants mature.
- Variegated	-	-	-	800mL	410 – 800mL	620mL	-	800mL - 2.5L	800mL - 3.3L	Spray at rosette stage. Can cause stock poisoning.
Thornapple	-	3.5L	-	410 – 800mL	-	-	-	3.3L	800mL - 1.7L	Spray at seedling stage.
Tree Hogweed	800mL	-	-	-	-	-	-	-	-	Spray up to rosette stage.

WEEDS CONTROLLED	Crop						Pasture – Non Legume			CRITICAL COMMENTS
	VIC	SA	TAS	NSW, ACT	QLD	WA	VIC	NSW,ACT, TAS, SA, QLD, WA only		
Turnip Weed	-	410mL	-	410 – 800mL	410mL	620mL	-	800mL	Spray seedling only.	
Vetches/Tares	800mL	620mL	800mL	-	-	-	-	-		
Wards Weed	-	410mL	-	-	-	-	-	-	Spray at seedling stage.	
Wild Cabbage	800mL	-	-	-	-	-	-	-	Spray up to rosette stage.	
Wild Garlic Only	-	-	-	-	-	-	6.6L	-	Suppresses aerial growth.	
Wild Mignonette	-	-	-	-	-	840mL	3.3L	-	Spray at rosette stage.	
Wild Mustard	-	-	-	-	-	570mL	-	1.6 - 2.5L (WA only)		
Wild Radish	800mL	800mL	800mL	410 – 800mL	800mL	570mL	-	800mL (840mL WA only)	Spray up to rosette stage.	
Wild Sage	-	-	-	-	-	-	-	2.5 - 3.3L		
Wild Teasel	-	-	-	-	-	-	1.7 - 3.3L	-	Spray at rosette stage. Use higher rate as plants mature.	
Wild Turnip	210mL	230mL	800mL	410 – 800mL	-	400mL	-	800mL (840mL WA only)	Spray up to rosette stage.	

#### Plant back days for APPARENT 2,4-D ESTER 680 HERBICIDE

CROP	RATES		
	Up to 510mL/ha	510mL-1L/ha	1-1.6L/ha
Balansa Clover	7	7	10
Barley <sup>1</sup>	1	1	3
Chickpeas <sup>2</sup>	7	14	21
Cotton	10	14	21
Faba Beans	7	7	10
Field Peas	7	14	14
Lentils	7	7	10
Linseed	7	7	14
Lucerne	7	7	10
Lupins <sup>4</sup>	7	14	21
Medics	7	7	10
Narbon Beans	7	7	10
Navy Beans	10	10	14
Oats	3	3	7
Perennial Ryegrass	7	7	10

CROP	RATES		
	Up to 510mL/ha	510mL-1L/ha	1-1.6L/ha
Persian Clover	7	7	10
Phalaris	7	7	10
Canola/Rapeseed <sup>2</sup>	14	21	28
Rice	7	7	14
Safflower <sup>2</sup>	7	14	21
Sorghum <sup>3</sup>	3	7	10
Soybean	14	14	21
Sub-Clover	7	7	10
Sunflower <sup>3</sup>	7	10	14
Triticale <sup>1</sup>	1	3	7
Vetch	7	7	10
Wheat <sup>1</sup>	1	3	7
White Clover	7	7	10

IMPORTANT: WHEN APPLIED TO DRY SOILS AT LEAST 15mm (1/2 inch) OF RAIN MUST FALL PRIOR TO THE COMMENCEMENT OF THE PLANT BACK PERIOD.

#### Notes:

<sup>1</sup> In Queensland, no rainfall is required to fall prior to commencement of Plant Back Period for wheat, barley and triticale.

<sup>2</sup> In Queensland, planting of canola/rapeseed, chickpeas and safflower must be delayed for at least 14 days following rainfall at least 15mm.

<sup>3</sup> In Central Queensland, when using 730mL/ha or less of Apparent 2,4-D Ester 680 Herbicide, the Plant Back Period for sorghum and sunflower is 1 day irrespective of rainfall.

<sup>4</sup> In WA the Plant Back Period for lupins at all rates is 28 days.

## GENERAL INSTRUCTIONS

Before opening, carefully read Directions for Use, Precautionary Statements, Safety Directions and First Aid Instructions.

### APPLICATION INFORMATION

This product may be used in either high or low volume sprays. Just pour into water and stir.

**Boom Spraying:** Use 30 - 100 litres water per hectare.

**Aerial Spraying:** Use 40 - 90 litres water per hectare.

Note: Refer to the Department of Agriculture/Primary Industries in your state for the current restricted spraying areas.

### EQUIPMENT MAINTENANCE AND USAGE

Keep the spray unit for herbicides only if possible. Otherwise wash out the unit with hot soapy water followed by several clear water rinses. DO NOT use wooden spray vats as they cannot be cleaned.

Hoses cannot be cleaned and new hoses should be fitted when the unit is to be used or any other purpose.

### COMPATIBILITY

This product can be tank mixed with 500 g/L Dicamba Herbicide, Apparent Chlorsulfuron 750 WG Herbicide, Paraquat, 2,2 DPA sodium salt, Atrazine 900 WG, Apparent Glyphosate 450 Herbicide, Metsulfuron 600 WG, Triasulfuron 750 WG, paraquat/diquat mixtures, 600 g/L Triclopyr, 200 g/L Fluroxypyr.

### TANK MIXING INSTRUCTIONS

- Fill the tank ¼ full with water and agitate.
- Add wettable powders and water dispersible granules first.
- Agitate until these are uniformly dispersed, while adding water until the tank is 90% full.
- Add suspension concentrates (flowables) then soluble concentrates. Add emulsifiable concentrates last.
- Top up the tank with water and continue agitation until all the ingredients are properly mixed.
- Observe any mixing sequence instructions specifically stated on the tank mix products.

### RE-ENTRY PERIOD

DO NOT hand harvest sugar cane for at least 1 day after application. If re-entering treated areas before the spray has dried, workers should wear overalls, elbow-length gloves and water-resistant footwear. Clothing must be laundered after each day's use.

### RESISTANT WEEDS WARNING

## GROUP 4 HERBICIDE

Apparent 2,4-D Ester 680 Herbicide is a member of the Phenoxy group of herbicides. Apparent 2,4-D Ester 680 Herbicide has the Disruptors of plant cell growth mode of action. For weed resistance management Apparent 2,4-D Ester 680 Herbicide is a Group 4 Herbicide. Some naturally-occurring weed biotypes resistant to Apparent 2,4-D Ester 680 Herbicide and other Group 4 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 Apparent 2,4-D Ester 680 Herbicide or other Group 4 herbicides. Since the occurrence of resistant weeds is difficult to detect prior to use, AIRR Apparent Pty Ltd accepts no liability for any losses that may result from the failure of Apparent 2,4-D Ester 680 Herbicide to control resistant weeds.

### PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

DO NOT apply under weather conditions, or from spraying equipment, that may cause spray to drift onto nearby susceptible plants/crops, cropping lands or pastures. Avoid spray drift and vapour movement onto susceptible crops such as cotton, tobacco, tomatoes, vines, lupins, fruit trees and ornamentals.

## **PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT**

Very toxic to aquatic life. DO NOT contaminate wetlands or watercourses with this product or used containers.

## **INTEGRATED PEST MANAGEMENT**

Toxic to beneficial arthropods. Not compatible with integrated pest management (IPM) programs utilising beneficial arthropods. Minimise spray drift to reduce harmful effects on beneficial arthropods in non-crop areas..

## **STORAGE AND DISPOSAL**

Store in the closed original container in a cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight. 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 for appropriate disposal 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.

**For Refillable containers:** Empty contents fully into application equipment. Close all vales and return to point of supply for refill or storage.

## **SAFETY DIRECTIONS**

Harmful if swallowed. Will irritate the eyes and skin. Avoid contact with the eyes and skin. When opening the container and preparing spray or using undiluted concentrate, wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length chemical resistant gloves, goggles and half face piece respirator with organic vapour/gas cartridge or canister. When using the prepared spray, wear cotton overalls buttoned to the neck and wrist and a washable hat and elbow-length chemical resistant gloves. If applying by hand wear half facepiece respirator with organic vapour/gas cartridge or canister. 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, goggles, respirator (and if rubber wash with detergent and warm water) and contaminated clothing.

## **FIRST AID**

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 13 11 26; New Zealand 0800 764 766.

## **SAFETY DATA SHEET**

Additional information is listed in the safety data sheet (SDS) which is available from the supplier.

## **CONDITIONS OF SALE**

AIRR Apparent 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 reply on AIRR Apparent Pty Ltd's skill or judgement in purchasing or using the same and every person dealing with this product does so at his own risk absolutely. No representative of AIRR Apparent Pty Ltd has any authority to add to or alter these conditions.