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



Fireball 400

HERBICIDE

ACTIVE CONSTITUENT:400g/L FLUROXYPYR present as the METHYLHEPTYL ESTER SOLVENTS: 316g/L LIQUID HYDROCARBON 100g/L N-METHYL PYRROLIDONE

GROUP 4 HERBICIDE

For the control of a wide range of broadleaf Weeds in Fallow, Lucerne, Maize, Millets, Pastures, Poppies, Sorghum, Sugar Cane, Sweet Corn, Winter Cereals. Also for the control of Woody Weeds in Agricultural Non-Crop areas, Commercial and Industrial Areas, Forests, Pastures and Rights-of-way as specified in the Directions for Use. IMPORTANT: Read this booklet before use.

APVMA Approval No: 81917/117275

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DIRECTIONS FOR USE RESTRAINTS

DO NOT apply to plants which may be stressed (not actively growing) due to prolonged periods of extreme cold, moisture stress (water-logged or drought affected) poor nutrition, presence of disease, or previous herbicide treatment as reduced levels of control may result.

Thorough coverage of both foliage and stems, to the point of runoff, is essential for high volume applications (see GENERAL INSTRUCTIONS; application methods WOODY WEED SITUATIONS section).

DO NOT spray if rain is likely to occur within one hour.

- Table 1: Woody Weeds in Agricultural Non-Crop Areas and Rights-of-Way, Commercial and Industrial Areas, Forests and Pastures
- Table 2: Established Grass Pastures (Ground and Aerial)
- Table 3: Sorghum, Maize, Millets and Sweet Corn
- Table 4: Winter Cereals (Wheat, Barley, Oats and Triticale)
- Table 5: Summer Fallow
- Table 6: Winter Fallow
- Table 7: Sugar Cane
- Table 8: Lucerne (established only)
- Table 9: Poppies

Table 1: Woody Weeds in Agricultural Non-Crop Areas and Rights-of-Way, Commercial and Industrial Areas, Forests and Pastures

· Legumes present at the time of spraying will be severely damaged.

HIGH VOLUME APPLICATION: Dilute p				
See General Instructions – Application				
WEEDS CONTROLLED	WEED GROWTH STAGE	STATE	RATE mL/100L	CRITICAL COMMENTS
			water	
Bathurst Burr Noogoora Burr	Seedlings and young plants up to 40cm high	QLD, NSW, NT, WA only	38	
Black Bindweed (Climbing Buckwheat)	Seedlings and young plants before flowering	NSW, QLD only	150	
Mimosa pigra	Apply from mid to late summer	NT, WA only		Add Uptake* Spraying Oil (see General Instructions; Oils and surfactants).
Common Sensitive Plant	Seedlings and young plants up to flowering	QLD, WA only	250	
Bellyache Bush		QLD, NSW, WA only		
Blackberry Nightshade Bokhara Clover	-	NSW, QLD only		
Caltrop (Yellow Vine)	Seedlings and young plants up to 30cm diameter			
(Tribulus terrestris) (T. micrococcus)				
Cobblers Pegs	Up to 15cm high			
Cockspur Thorn	Up to 3m high			
Creeping Lantana	At flowering			
Crofton Weed Mistflower	Seedlings and young plants up to flowering			
Docks (Rumex spp.)	Seedlings and rosettes up to 30cm high			
Hexham Scent	Seedlings and young plants up to flowering			Boom spray: Apparent Fireball at 0.3L/ha + 0.4L/ha of 2,4-D amine (625g/L).
Honey Locust	Seedlings and young plants up to 2m high			
Small Flowered Mallow (Marshmallow)	Seedlings and young plants up to flowering	NSW, QLD only	250	
(Malva parviflora)				
Yellowflower Devil's Claw	Seedlings and young plants up to flowering			

Table 1: Woody Weeds in Agricultural Non-Crop Areas and Rights-of-Way, Commercial and Industrial Areas, Forests and Pastures (continued) • Legumes present at the time of spraying will be severely damaged.

HIGH VOLUME APPLICATION: Dilute See General Instructions – Application	product with water.	
WEEDS CONTROLLED	WEED GROWTH STAGE	STATE
Lantana	Seedlings and regrowth 0.5 to 1.2m high	NSW, QLD only
	Plants and regrowth 1.2 to 2m high	
Blue Heliotrope	Flowering	
Limebush	Infestations up to 1.5m high only	
Madeira Vine	Apply at time of active growth	
Milkweed (Euphorbia heterophylla)	3 leaf to flowering	QLD only
Common Sowthistle	Seedlings and young plants up to bolting	NSW, QLD only
Mother-of-millions (Kalanchoe spp.)	Seedling and young plants before flowering	
Prickly Acacia	Seedling and young plants up to 2m high	QLD only
<i>Sida</i> spp.	Seedling and young plants up to flowering	NSW, NT, QLD, WA only
Broadleaf Pepper Tree (Schinus terebinthifolius)	Mature leaves, fruiting	QLD only
Flannel Weed (Sida cordifolia)	Mature leaves, fruiting	
Snakeweed (Dark and light blue)	Seedling and young plants before flowering	
Stinking Passion Flower	Established plants and regrowth	QLD, NT, WA only
Wandering Jew (Tradescantia albiflora)	Young plants up to and including flowering	ALL STATES
Wattles (including Acacia aulacocarpa	Seeding plants or regrowth 0.5 to 1.2m high	NSW. QLD only
A. decora	Plants or regrowth 1.2 to 2.0m high only	,
A. harpophylla		
A. leiocalyx		
A. salicina)		
BASAL BARK AND CUT STUMP APPL – Application Method for application	ICATION: Dilute product with diesel. See Genera details	al Instructions
WEEDS CONTROLLED	WEED GROWTH STAGE	STATE
Celtis (<i>Celtis sinensis</i>)	Basal Bark only: Young plants up to 2m high and 20cm basal diameter	QLD only
Chinee Apple	Up to 15cm basal diameter	1
Cockspur Thorn	Basal Bark only: Up to 5cm basal diameter	1
Mimosa Bush (<i>Acacia farnesiana</i>)	Up to 5cm basal diameter	QLD, WA only
Prickly Acacia	Up to 10cm basal diameter	QLD only
Honey Locust	Plants up to 10cm basal diameter	QLD, NSW only
	Plants 10 to 20cm basal diameter	
	Plants >20cm basal diameter	1

RATE mL/100L water	CRITICAL COMMENTS
250	Apply to actively growing plants from October to April. Some regrowth may occur particularly
500	when treating old woody plants with sparse canopies.
250	-
500	Repeat applications will be necessary to control subsequent germinations.
250	Add a surfactant (see GENERAL INSTRUCTIONS; Oils and surfactants).
300	
375	Add Uptake* Spraying Oil (see GENERAL INSTRUCTIONS ; Oils and surfactants). Consult Tropical Weeds Research Centre, Charters Towers, for specific advice on application.
500	
250	Winter application only. Contact Alan Fletcher Research Station for more information.
250	
375	Add Uptake* Spraying Oil (see GENERAL INSTRUCTIONS; Oils and surfactants).
225	Use 70mL/15L for a knapsack.
750	Some regrowth will usually occur and will require retreatment.
250	Apply to actively growing plants when soil moisture is plentiful. Some regrowth may occur
500	particularly when treating old woody plants with sparse canopies and under dry conditions.
RATE/100L of DIESEL	CRITICAL COMMENTS
1.8L	Treat stems from ground level to where multi-stemmed trunks branch.
1.5L	With basal bark, treat circumference of stem to a height of 45cm from the ground. Contact the Lar
1.0L	Protection Branch, Department of Lands, QLD, for further information on Chinee Apple.
1.5L	
750mL	
750mL	With basal bark, treat circumference of stem to a height of 45cm from the ground.
1.5L	For cut stump application use a rate of 5L/100L diesel for all plant sizes.
2.5	- Contact the Land Protection Branch, Department of Lands, QLD, for further information on
Z.JL	Honey Locust.

Table 1: Woody Weeds in Agricultural Non-Crop Areas and Rights-of-Way, Commercial and Industrial Areas, Forests and Pastures (continued) • Legumes present at the time of spraying will be severely damaged.

BASAL BARK AND CUT STUMP APPLICATION: Dilute product with diesel. See General Instructions - Application Method for application details						
WEEDS CONTROLLED	WEED GROWTH STAGE	STATE				
Sisal Hemp (<i>Agave</i> spp.)	All growth stages	QLD only				
Application Method for application det						
WEEDS CONTROLLED	WEED GROWTH STAGE	STATE				
Mimosa pigra	Actively growing plants	NT, WA only				
See General Instructions – Application		d gun.				
WEEDS CONTROLLED	WEED GROWTH STAGE	STATE				
Limebush	Isolated bushes up to 1.2m high only					
		NSW, QLD only				
Tree Violet (<i>Hymenanthera dentata</i>)	Apply from late flowering to green fruit up to 1.2m high	NSW, QLD only NSW only				
	Apply from late flowering to green fruit up to 1.2m					
Tree Violet (Hymenanthera dentata)	Apply from late flowering to green fruit up to 1.2m					
Tree Violet (<i>Hymenanthera dentata</i>) Table 2: Established Grass Pastures	Apply from late flowering to green fruit up to 1.2m high WEED GROWTH STAGE Apply before flowering	NŚW only				
Tree Violet (<i>Hymenanthera dentata</i>) Table 2: Established Grass Pastures WEEDS CONTROLLED Blue Billygoat Weed, Common Sensitive	Apply from late flowering to green fruit up to 1.2m high WEED GROWTH STAGE	NSW only STATE				

RATE/100L of DIESEL	CRITICAL COMMENTS
1.5L	Treat as an overall spray. Contact The Land Protection Branch, Department of Lands, QLD for advice to control large infestations.
5mL undiluted product per plant	Lever out centre of plant with crowbar and immediately treat the exposed cut area.
RATE/100L water	CRITICAL COMMENTS
RATE/100L water 1.5L	CRITICAL COMMENTS Aerial application: Add Uptake Spraying Oil at the rate of 1L/100L spray mix. Apply to actively growing plants from mid to late summer. Contact the Department of Primary Industries and Fisheries, NT for further information.
	Aerial application: Add Uptake Spraying Oil at the rate of 1L/100L spray mix. Apply to actively growing plants from mid to late summer. Contact the Department of Primary Industries and
	Aerial application: Add Uptake Spraying Oil at the rate of 1L/100L spray mix. Apply to actively growing plants from mid to late summer. Contact the Department of Primary Industries and
1.5L	Aerial application: Add Uptake Spraying Oil at the rate of 1L/100L spray mix. Apply to actively growing plants from mid to late summer. Contact the Department of Primary Industries and Fisheries, NT for further information.

RATE/100L water	CRITICAL COMMENTS
750mL	Add Uptake Spraying Oil at 1L/ha.
1.5L	Some regrowth will occur. Treat regrowth the following season for best results. Use at least 200L
	water/ha.
375mL or 190mL +	Add Uptake Spraying Oil at 1L/ha.
1.2-1.6L 2,4-D amine	To ensure maximum effect, delay application until the majority of shoots have emerged. Follow-up
(625g/L)	treatment of regrowth is critical for best control.

Table 3: Sorghum, Maize, Millets and Sweet corn (NSW & QLD only)

CROP	ROP GROWTH STAGE	WEEDS CONTROLLED	WEED GROWTH STAGE	RATE/ha	CRITICAL COMMENTS
Sorghum	Apply when secondary roots are present, from 4	Annual Ground Cherry Wild Gooseberry	2 to 8 leaf	250mL	Sorghum: From 8 leaf to boot stage, use dropper nozzles to prevent
oorginum	fully expanded leaves (15cm tall) up to boot (also	(<i>Physalis</i> spp.)	Up to 15cm tall	2001112	herbicide coming in contact with the crop's leaves and the growing
	see CRITICAL COMMENTS)	(i ijodilo opp.)	15 to 30cm tall	375mL	point (meristem).
		Apple-of-Peru	Seedling plants Up to	010IIIE	
			15cm tall		
		Bathurst Burr Noogoora Burr	2 to 8 leaf	250mL	
		, i i i i i i i i i i i i i i i i i i i	Up to 20cm tall		
Maize	Apply when secondary roots are present, from 3		20 to 50cm tall	375mL	Maize and Sweet corn: From 6 leaf to just before tasselling,
Sweet corn	fully expanded leaves (10cm tall) up to just before	Pigweed (Portulaca oleracea)	Up to 10cm diameter	250mL	use dropper nozzles to prevent the herbicides coming in contact
	tasselling (see CRITICAL COMMENTS)		10 to 30cm diameter	375mL	with the crop's leaves and the growing point (meristem).
Millets	Spray when secondary roots have developed.	Sesbania Pea	2 to 6 leaf	750mL	Millets: DO NOT use mixes with atrazine.
	usually early to mid- tillering, and not later than		Up to 10cm tall		This treatment may be slightly damaging to the crop.
	before heads start to form at the base of tillers.	Silverleaf Nightshade (NSW only) (1)	Full flower to early berry	375mL +	To minimise crop damage apply using dropper nozzles at all
	(See CRITICAL COMMENTS)			Uptake at 300mL/100L	crop stages.
		Starburr (Acanthospermum hispidum) (QLD only)	Up to 12 leaf and before	750mL or 375mL +	
		Thermony los (Detune and)	flowering	1.6L atrazine (600g/L)	-
		Thornapples (<i>Datura</i> spp.)	2 to 8 leaf Up to 15cm tall	375mL	
		Volunteer sunflower	2 to 5 leaf	500mL	-
		Volunteer Sunnower	Up to 20cm tall	JUUIIL	
Annarent Firehall	in tank-mixes with atrazine: Sorghum, Maizo	e and Sweet Corn	00 10 20011 1011		
CROP	CROP GROWTH STAGE	WEEDS CONTROLLED	WEED GROWTH STAGE	RATE/ha	CRITICAL COMMENTS
Sorghum Maize	Spray when secondary roots have developed,	Amaranthus spp. Including: Boggabri Weed,	Seedling plants up to	250mL + 1.2L of atrazine	Use the low rate (250mL + 1.2L) when weeds are small (5-7cm
Sweet corn	usually early to mid-tillering and not later than	Dwarf Amaranth, Green Amaranth, Redshank,	15cm tall or rosettes up to	flowable (600 or 675g/L)	tall/ diameter).
	before heads start to form at the base of the tillers	Anoda Weed, Bladder Ketmia, Black Pigweed	15cm diameter	or 375mL + 1.6L of	Use the high rate (375mL + 1.6L) when the weeds are larger
	(See CRITICAL COMMENTS)	(Trianthema portulacastrum), Caltrop (Yellow		atrazine flowable (600g/L	(7-15cm tall/diameter).
		Vine), including Tribulus terrestris, T. microccus		or 1.1kg of Atrazine 900g/	Apparent Fireball is generally more compatible with liquid
		and T. maximus, Cowvine (Peach Vine) (Ipomoea		kg granules)	atrazine products (see GENERAL INSTRUCTIONS;
		Ionchophylla), Hairy Wandering Jew (Commelina benghalensis), Mintweed			compatibility section).
		0 //	Ostuladare to Association	E00 d CL star-i	Add a surfactant (See GENERAL INSTRUCTIONS ; Oils and surfactants).
	Spray when secondary roots have developed, usually early to mid-tillering and not later than	Euphorbia davidii	Cotyledons to 4 nodes up to 15cm	500mL + 1.6L atrazine flowable (600g/L or	DO NOT add an oil to mixtures of Apparent Fireball and atrazine.
	before heads start to form at the base of the tillers		lu ioun	1.1kg of Atrazine 900g/kg	DO NOT add all off to mixtures of Apparent Fileball and atfazine.
	(See CRITICAL COMMENTS)			granules)	
		Volunteer Peanuts	Up to 15cm diameter	500mL + 3.7L atrazine	
				flowable (600g/L or	
				2.5kg of Atrazine 900g/kg	
				granules)	
Sweet Corn: Tasn					
CROP	CROP GROWTH STAGE	WEEDS CONTROLLED	WEED GROWTH STAGE	RATE/ha	CRITICAL COMMENTS
Sweet corn only	3 to 5 leaf	Blackberry Nightshade Volunteer Potatoes	3 to 5 leaf	500mL	
1					

Table 4: Winter Cereals (Wheat, Barley, Oats and Triticale)

CROP GROWTH Stage	WEEDS CONTROLLED	WEED GROWTH STAGE	STATE	RATE/ha	CRITICAL COMMENTS
Apply from 3 leaf to flag	Bedstraw (Galium tricornutum)	1 to 3 whorl	VIC, SA, WA only	500mL	⁽¹⁾ Add either Uptake or a surfactant (see GENERAL INSTRUCTIONS ; Oils and surfactants).
(Zadoks 13 to 39)	Cleavers (Galium aparine)		NSW, VIC only		······································
,	Black Bindweed (Climbing Buckwheat)	2 to 4 leaf	NSW, QLD only	250mL ⁽¹⁾	Useful suppression only.
		2 to 6 leaf		375mL or 250mL + 5g	Mixtures: Mixing partners with Apparent Fireball may reduce crop selectivity. Apply at crop
					growth stages according to the mixing partner's recommendation.
	Common Sowthistle (Sonchus oleraceus)	2 to 5 leaf		500mL	
	Deadnettle	2 to 6 leaf		750mL or 250mL + 5g	
	Spiny Emex (Doublegee, Three Cornered Jack)	2 to 4 leaf	NSW, SA, QLD, WA only	Metsulfuron methyl ⁽¹⁾	
	Prickly Lettuce	2 to 5 leaf	NSW, QLD, TAS, VIC,	500mL	
			WA only		
	Volunteer Lupins	2 to 8 leaf	NSW, VIC, WA only	750mL	
	Volunteer Potato	10 to 15cm tall	WA, TAS only		Plants 15 to 30cm tall will only be suppressed.
	Wireweed	2 to 3 leaf	NSW, QLD, SA, TAS, VIC, WA only	750mL	
			NSW, QLD only	250mL + 5g Metsulfuron	
				methyl ⁽¹⁾	
	Bittercress (Coronopus didymus), Mustards,	Up to 8 leaf and up to	QLD, NSW, VIC, SA,	250mL to 1.5L +	The Apparent Fireball rate depends on what other weeds are present as listed above.
	Shepherd's Purse, Turnip Weed, Wild Radish,	15cm diameter	TAS, WA only		See Mixtures comment above.
	Wild Turnip				Metsulfuron methyl (600g/kg) at 5g/ha (this mix does not control Wild Radish).
					Eclipse at 5-7g/ha (use the 5g rate on Turnip Weed only).
					MCPA LVE (500g/L) at 700mL/ha.
					MCPA Amine (500g/L) at 1.0L/ha.
Table 5: Summer Fallo	W				

WEEDS CONTROLLED	WEED GROWTH STAGE	STATE
Annual Ground Cherry Wild Gooseberry (Physalis	2 to 8 leaf, up to 15cm tall	NSW, QLD only
spp.)		
Bathurst Burr Noogoora Burr	2 to 8 leaf, up to 20cm tall	NSW, QLD, VIC, WA only
Bellvine	Pre-flowering	NSW, QLD only
Bladder Ketmia	4 to 8 leaf, up to 10cm tall	
Cowvine (Peach Vine) Ipomoea Ionchophylla	2 to 10 leaf up to 10cm diameter	
Caltrop (Yellow Vine) including Tribulus terrestris,	Up to 15cm diameter	
T. maximus and T. microccus		
Pigweed (Portulaca oleracea)	Up to 10cm diameter	
	Up to 60cm diameter	
Polymeria pusilla	2 to 10 leaf up to 20cm diameter	
Rhynchosia	Seedlings to early flowering	
Smallflower Mallow or Marshmallow	Up to 8 leaf up to 20cm diameter	
(Malva parviflora)		
Thornapples (Datura spp.)	2 to 8 leaf up to 15cm diameter	NSW, QLD, WA only
Sesbania Pea	2 to 6 leaf up to 10cm tall	NSW, QLD only
Perennial Ground Cherry (Physalis virginiana) ^(w)	Bud to early flowering up to 20cm tall	

RATE/ha	CRITICAL COMMENTS
375mL ⁽²⁾	(1) Add Uptake* Spraying Oil (see GENERAL INSTRUCTIONS; Oils and surfactants).
250mL + 1.2L Glyphosate 450	When mixing with Glyphosate 450 to control both grass and broadleaf weeds, refer to the Glyphosate 450 label for use rates and adjuvants recommended for the grasses (see GENERAL INSTRUCTIONS ; compatibility section).
250mL + 1.0L Glyphosate 450	⁽²⁾ Delay treatment until the maximum number of shoots have emerged, but before the onset of fruiting (late summer).
375mL ⁽¹⁾	DO NOT treat plants showing symptoms from previous treatment. Use the
375mL + 1.0L Glyphosate 450	high rate when longer term weed control (6-10 months) is required and
500mL ⁽¹⁾ or 250mL + 1.2L Glyphosate 450	delay planting crops during this period. The low rate will require follow-up treatments.
500mL ⁽¹⁾ or 190mL + 800mL Glyphosate 450	The low falle will require follow-up treatments.
500mL ⁽¹⁾	
375mL ⁽¹⁾ or 250mL + 1.2L Glyphosate 450	
750mL ⁽¹⁾ or 250mL + 1.2L Glyphosate 450	
750mL or 1.5L ⁽¹⁾	

Table 5: Summer Fall WEEDS CONTROLLED		WEED GROWTH STAGE	STATE	RATE/ha		CRITICAL COMMENTS
Silverleaf Nightshade		Full flower to early berry- set (usually Dec – Feb)	NSW only	375mL or 190mL + 1.2-1.6 (625g/L)		Add Uptake Spraying Oil at the rate of 1L/100L spray mixture. To ensure maximum effect, delay application until the majority of shoots have emerged. Follow-up treatment will be required to control regrowth and is critical for optimum control. If wanting to prevent seed set repeat applications may be needed in the same season, although this does not lead to better long term control.
Volunteer Peanuts		Up to 15cm diameter	QLD only	500mL + 3.7L atrazine flow	/able (600g/L)	Add a surfactant (see GENERAL INSTRUCTIONS ; Oils and surfactants). Important: See GENERAL INSTRUCTIONS ; compatibility section).
Volunteer Sunflowers		2 to 5 leaf up to 20cm	NSW, QLD only	500mL		Add Uptake Spraying Oil (see GENERAL INSTRUCTIONS ; Oils and surfactants section).
Table 6: Winter Fallow	V					
WEEDS CONTROLLED		WEED GROWTH STAGE	STATE	RATE/100L wa	iter	CRITICAL COMMENTS
Bedstraw (Galium tricorn Cleavers (Galium aparine	/	Up to 5 whorl	VIC, SA, WA only NSW, VIC only	500mL ⁽¹⁾		(1) Add Uptake Spraying Oil (see GENERAL INSTRUCTIONS; Oils and surfactants section).
Black Bindweed (Climbing	Buckwheat)	2 to 8 leaf up to 10cm diameter	NSW, QLD only	375mL ⁽¹⁾		⁽²⁾ Add Uptake or a surfactant (see GENERAL INSTRUCTIONS ; Oils
Common Sowthistle (Sor Prickly Lettuce	nchus oleraceus)	2 to 5 leaf up to 10cm diameter		500mL ⁽¹⁾ or 250mL+ 600mL Glyphosate 450		and surfactants section). When mixing with Glyphosate 450 to control both grass and broadleaf
Spiny Emex (Doublegee,	Three Cornered Jack)	2 to 8 leaf		750mL(1) or 250mL ⁽²⁾ + 5g M (600g/kg)	etsulfuron methyl	weeds, refer to the Glyphosate 450 label for use rates and adjuvants recommended for the grasses (see GENERAL INSTRUCTIONS ;
Wireweed		2 to 3 leaf up to 10cm tall		750mL(1) or 250mL ⁽²⁾ + 5g Metsulfuron methyl (600g/ kg) or 0.5 ⁽²⁾ + 0.6 Glyphosate 450		Compatibility Section).
Table 7: Sugar cane (C	LD, NSW, NT and WA	only)				· · · · · · · · · · · · · · · · · · ·
CROP GROWTH STAGE	WEEDS CONTROLLED)	WEED GROWTH STAGE	RATE/ha	CRITICAL CON	AMENTS
From early tillering to maturity	Cowpea, Giant Sensitive F	Vightshade, Blue Billygoat Weed, Centro, Plant, Lablab Bean, Noogoora Burr, Phasey rican Cucumber, Spinyhead Sida, Stinking	Apply from 2 to 3 leaf until flowering	Ground: 650mL Aerial:		d control, delay application until just before the "close-in" stage. n: Apply in not less than 60L/ha water and add Uptake Spraying Oil at nixture.

STAGE				
From early tillering to	Balsum Pear, Blackberry Nightshade, Blue Billygoat Weed, Centro,	Apply from 2 to 3 leaf until	Ground:	For optimal weed control, delay application until just before the "close-in" stage.
		flowering	650mL	Aerial application: Apply in not less than 60L/ha water and add Uptake Spraying Oil at
	Bean, Pinkburr, Prickly African Cucumber, Spinyhead Sida, Stinking	-	Aerial:	1L/100L spray mixture.
	Passion Flower (seedlings only)		750mL	Ground application: Apply in 100-400L/ha water and add Uptake Spraying Oil at
	Bellvine, Morning Glory, Red or Pink Convolvulus, Star-of-		As above + 800mL 2,4-D	300mL/100L of spray mixture.
	Bethlehem		amine (625g/L)	
	Stinking Passion Flower	Established or ratoon	High volume:	Thoroughly wet plants to the point of run-off.
		plants with at least 1.0m of	225mL/100L water	
		regrowth	Knapsack: 35mL/15L water	
	Milkweed (Euphorbia heterophylla)	Seedlings and young		Better control will be achieved with the atrazine mixture. Delay application until just before
		plants up to flowering		the cane reaches the "close- in" stage. This will improve control and minimise the number
T-bl- 0. I				of seedlings that germinate.

Table 8: Lucerne (NSW only)

or heavily graze the lucerne
o stimulate weed growth.
of March).
be mixed with 2,4-DB Amine.
0 of

Table 9: Poppies (Tas only)

CROP GROWTH Stage	WEEDS CONTROLLED	WEED GROWTH STAGE
4 to 6 leaf	Cleavers Fumitory Shepherd's Purse Wireweed	2 to 6 leaf
8 to 10 leaf	Common Sowthistle Prickly Lettuce Blackberry Nightshade	2 to 5 leaf Cotyledon to 4 leaf
	Fumitory	6 to 10 leaf
	Volunteer potato	From tuber initiation to flower bud

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

WITHOLDING PERIODS:

CROPS AND PASTURES: DO NOT GRAZE FAILED CROPS AND TREATED PASTURES OR CUT FOR STOCK Food For 7 days after application. Poppies: do not spray poppies later than 10 weeks before harvest.

OTHER CROPS: NOT REQUIRED WHEN USED AS DIRECTED.

MINIMUM RECROPPING PERIODS

PLANT-BACK PERIODS FOR CROPS FOLLOWING THE APPLICATION OF Apparent Fireball FOR RATES UP								
T0 750mL/ha								
RATE/ha	190mL	375mL	750mL					
CROP	DAYS							
Barley	7	7	7					
Wheat	7	7	7					
Chickpea	7	7	7					
Cotton	14	14	28					
Soybean	7	7	14					
Sunflower	7	7	7					
Maize	7	7	7					
Sorghum	7	7	7					
NOTE: Before using Apparent Fireball in tank mixes with other herbicides, check the plant-back information on all product								

labels. The time between spraying and planting will be determined by the most residual product, i.e. the product with the longest plant-back period.

GENERAL INSTRUCTIONS

MIXING

Apparent Fireball may be mixed with water or diesel. Mix only sufficient chemical for each day's use and avoid storing. **Mixing in Water:** Half fill the spray tank with water and add the required quantity of Apparent Fireball and complete filling. Agitate continuously to ensure thorough mixing before and during application.

Mixing in Diesel: Half fill the tank with diesel and add the required quantity of Apparent Fireball. Add the remainder of the diesel and agitate or shake to mix contents.

Tank mixtures: Wettable powder or dry flowable formulations (e.g. water dispersible granules) should be added to the spray tank first, followed by suspension concentrates (flowables), water soluble salts and then emulsifiable concentrate formulations (Apparent Fireball). Add spraying oils and surfactants (wetters) last.

OILS AND SURFACTANTS

Oils: Where specified use only Uptake Spraying Oil at the rate of 500mL/100L of spray mix. When using less than 100L/ha spray volume, ensure a minimum of 250mL/ha of Uptake is used, unless 1L/100L or 1L/ha is specified.

RATE/ha	CRITICAL COMMENTS
500mL	
500mL + 5L Asulox*	
500mL	DO NOT apply Apparent Fireball to poppies later than the 8 to 10 leaf growth stage as a
750mL	reduction of alkaloid content could occur.
	This rate will provide season long control of volunteer potato, but will not control all
	daughter tubers and will only suppress potatoes over 15cm tall.

Surfactants (wetters): Use a 100% concentrate non-ionic surfactant such as BS1000* at 100mL/100L of spray mix where required.

COMPATIBILITY

Apparent Fireball is compatible with the herbicides listed. Follow any regional restrictions, and all directions and restrictions on the label, of any chemical mixed with Apparent Fireball.

Atrazine (see below)	Glyphosate 360	Lontrel	Metsulfuron methyl (600g/kg)	Glyphosate 450
MCPA	Broadstrike	Topik 240 EC (see below)	Puma S	Eclipse
Tordon 75-D	2,4-D	Diclofop methyl	Tordon 242	2,4-DB
Triclopyr (600g/L)	Touchdown			

ATRAZINE – AVOID USING HARD WATER WHEREVER POSSIBLE

Where hard water cannot be avoided, the addition of CALGON* water conditioning agent to the spray tank, at 100g/100L water, before adding any herbicide may improve compatibility.

AGITATION IS VERY IMPORTANT WHEN MIXING Apparent Fireball AND ATRAZINE.

Apparent Fireball plus atrazine tank mixes must be agitated vigorously and continuously during mixing and application. After mixing DO NOT allow to stand without agitation. Ensure that the time from mixing to the end of application is not more than 2 hours. If settling out occurs, re-suspension is difficult, even with vigorous agitation. Agitation using only the pump's by-pass is usually inadequate, particularly with larger tanks (more than 2000). Additional mechanical agitation will be necessary in large tanks, computer sprayers and mixing tanks. When additional surfactant is required, add a 100% concentrate non-ionic surfactant at 100mL/100L of sprav mix. DO NOT use a spraving oil when tank mixing Apparent Fireball and atrazine.

TOPIK 240 FC

Always use Uptake Spraying Oil with Apparent Fireball + Topik 240 EC tank-mixes at 500mL/100L of spray mix with a minimum of 250mL/ha. DO NOT mix Apparent Fireball with Topik 240 EC if the grass weeds are not actively growing. Always use the maximum label rate of Topik 240 EC for the appropriate grass growth stage. DO NOT use Apparent Fireball at more than 0.75L/ha in tank mixes with Topik 240 EC.

GLYPHOSATE 450

When mixing Apparent Fireball with Glyphosate 450 to control both grass and broadleaf weeds, refer to the Glyphosate 450 label for use rates and adjuvants recommended for the grasses. DO NOT use Glyphosate 450 at less than 1.2L/ ha in tank mixes with Apparent Fireball, when Barnyard Grass, Buttongrass, Crowsfoot Grass, Native Millet and Liverseed Grass are the target species. APPLICATION METHODS and WATER RATES

BROADCAST APPLICATION IN CROPPING, PASTURE AND FALLOW SITUATIONS

Ground application (Boom): Apply Apparent Fireball with an accurately calibrated boom sprayer, in at least 50L/ha water (100-400L/ha for sugar cane). Flat nozzles are recommended using pressures in the range 200 to 300kPa. Set the boom at a height to ensure a double overlap of the nozzle patterns.

Ground directed application (Dropper nozzles): To minimise crop effects, dropper nozzles should be used in sorghum when the crop is beyond the 8 leaf growth stage and in maize and sweet corn when the crop is beyond the 6 leaf growth stage. Adjust the nozzles to direct the spray into the base of the crop and away from the leaves and the growing point. See manufacturers' directions for setting up and calibration of dropper nozzles.

Aerial application: Apply in a minimum volume of at least 351 /ha water (601 /ha in sugarcane). Use equipment calibrated to produce droplets with an average diameter (Volume Mean Diameter; VMD) of 250-350 microns. DO NOT apply when the temperature is above 30°C, when there is no wind or when the wind is blowing toward susceptible crops. DO NOT use human flaggers unless they are protected by engineering controls such as enclosed cabs.

WOODY WEED SITUATIONS

Weeds must be actively growing to attain optimal effect. Delay the treatment of regrowth following bulldozing, slashing, burning, ploughing or a previous chemical treatment until it has at least 1 metre of new, vigorous, growth,

A. High Volume Application

Hand Gun: Apply the recommended mix to obtain full coverage of leaves and stems using a number 6-8 tip at 700 to 1500kPa. To obtain good coverage, a spray volume of 1500 to 4000L/ha (15 to 40L/100m²) is required per infested hectare. Ensure thorough coverage to the point of runoff.

Knapsack: Knapsack sprayers may be used on smaller infestations where penetration and coverage of the canopy is easier to achieve. Use the same use rate and spray techniques as for handgun application.

B. Low Volume, High Concentrate Application

Drench Gun or Gas-Powered Gun: Apply the recommended mixture uniformly across the foliage by applying 50mL shots to cover 4 to 5m² of surface area of plant. This is approximately equivalent to 20 droplets per cm² of the leaf surface. Use a marking agent as recommended by the equivalent manufacturer to check spray coverage.

C. Basal Bark and Cut Stump Application

Basal Bark: DO NOT apply to wet stems as this can repel the diesel mixture. Spray or paint the recommended mixture around the base of each stem from ground level to a height of at least 30cm from the ground, wetting the bark to the point of runoff. Apply with a paint brush or a pressure spraver with an appropriate lance and solid cone nozzle. If using sprave

equipment use low pressures (< 200kPa) sufficient to form a cone of spray. Old rough bark will require more spray than smooth or young thin bark.

Cut Stump: Apply the recommended mixture liberally to the freshly cut stump immediately after cutting. Apply by spraying or painting the cut surface and sides of the stump. Best results are obtained when the stems are cut less than 15cm above the around.

CLEANING SPRAY EQUIPMENT

Rinse water should be discharged onto a designated disposal area or, if this is unavailable, onto wasteland away from desirable plants and water courses.

Cleaning equipment after using water-based sprays:

Rinsing: After using Apparent Fireball, empty the tank completely and drain the whole system. Thoroughly wash inside the spray unit using a pressure hose. Drain and clean any filters in the tank, pump, lines, hoses and nozzles. After cleaning the tank as above, guarter fill the clean water and circulate through the pump, lines and nozzles. Drain and repeat the rinsing procedure twice

Decontamination (before spraying cotton and other sensitive crops; see PROTECTION OF CROPS): Wash the tank and rinse the system as above. Then guarter fill the tank and add an alkali detergent (e.g. liquid SURF, OMO, DRIVE) at 500mL/100L of water or the powder equivalent at 500g/100L and circulate throughout the system for at least fifteen minutes. Drain the whole system. Remove filters and nozzles and clean them separately. Finally flush the system with clean water and allow to drain.

Cleaning equipment after using diesel - based sprays: On completion of spraying, use a degreaser such as Caltex Kwik-D-Grease to remove traces of diesel from the spraver. Rinse tank and sprav through nozzles with water to remove degreaser. Then guarter fill the tank and add an alkali detergent (e.g. liquid SURF, OMO, DRIVE) at 50mL/10L of water or the powder equivalent at 50g/10L. Shake sprayer to circulate the washing solution throughout the sprayer, then spray the solution through the nozzles. Rinse well with clean water to remove the detergent. To clean brushes and containers, spray liberally with degreaser. Hose off with clean water and repeat using detergents as above. DO NOT use this equipment for any other purpose.

RESISTANT WEEDS WARNING

GROUP 4. HERBICIDE

Apparent Fireball 400 Herbicide is a member of the pyridine group of herbicides. The product has the disrupters of plant cell growth mode of action. For weed resistance management, the product is a Group 4 Herbicide. Some naturally-occurring weed biotypes resistant to the product and other Group 4 herbicides may exist through normal genetic variability in any weed population. The resistant individual 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 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 this product to control resistant weeds. Strategies to minimize the risk of herbicide resistance are available. Contact your farm chemical supplier, consultant, local Department of Agriculture, or AIRR Apparent representative.

PROTECTION OF CROPS. NATIVE AND OTHER NON-TARGET PLANTS

Susceptible crops include but are not limited to clovers, cotton, fruit, hops, lupins, ornamentals, peas, pine tree, potatoes, navy beans, safflower, shade trees, soybeans, sunflower, tobacco, tomatoes, vegetables and vines, Apparent Fireball 400 Herbicide can be damaging to susceptible crops during both growing and dormant periods. Grasses are normally unaffected by Apparent Fireball 400 Herbicide and establish quickly after treatment. Transitory damage can occur on some species particularly those that spread by stolons such as Couch Grass (Crnodon dactylon), Kikuyu Grass and Carpet Grass (Axonopus sp.) DO NOT allow spray to drift onto susceptible crops, shade trees and Pinus spp. DO NOT use under weather conditions or from spraying equipment which could cause spray to drift onto nearby susceptible plants.

PROTECTION OF LIVESTOCK

DO NOT graze stock or cut treated crops or plants for food except as specified under withholding periods. Poisonous plants may become more palatable after spraying therefore stock should be kept out of the area until the plants have died down. DO NOT allow stock to re-enter paddocks containing treated poisonous plants, until the plants have died down.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

D0 N0T contaminate streams, rivers or watercourses with the chemical or used containers. Alongside watercourses, treat only noxious weeds and poisonous plants.

STORAGE AND DISPOSAL

Storage for all containers: Store in closed, original container in a cool, well ventilated area. DO NOT store for prolonged periods in direct sunlight.

Recycled containers: This container can be recycled if it is clean, dry, free of visible residues and has the drumMUSTER logo visible. Triple rinse container before disposal. Dispose of rinsate by adding to the spray tank. DO NOT dispose of undiluted chemicals on site. Wash outside of the container and the cap. Store cleaned container in a sheltered place with cap removed. It will then be acceptable for recycling at a drumMUSTER collection or similar container management site. The cap should not be replaced but may be taken separately.

Non-recycled containers: Triple rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on site. 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 product should not be burnt.

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

SMALL SPILL MANAGEMENT

Wear protective equipment (See SAFETY DIRECTIONS). Apply absorbent material such as earth, sand, clay granules or cat litter to the spill. Sweep up material for disposal when absorption is completed and contain in a refuse vessel for disposal (see STORAGE AND DISPOSAL section). If necessary wash the spill area with an alkali detergent and water and absorb the wash liquid for disposal.

SAFETY DIRECTIONS

Will irritate the eyes and skin. Avoid contact with eyes and skin. Sensitive workers should use protective clothing. When opening the container and preparing the spray and using the prepared spray, wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves and a face shield or goggles. After each day's use, was gloves, face shield or goggles and contaminated clothing. Wash hands after use.

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 131126; New Zealand 0800 764 766. If swallowed, DO NOT induce vomiting.

SAFETY DATA SHEET

Additional information is listed on the Safety Data Sheet which is available from the supplier.

CONDITIONS OF SALE

The use of Apparent Fireball 400 Herbicide being beyond the control of the manufacturer no warranty expressed or implied is given by AIRR Apparent 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 AIRR Apparent Pty Ltd accepts with no responsibility for any consequences whatsoever resulting from the use of this product.

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