

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

QA

Fluroxypyr 400 EC

HERBICIDE

ACTIVE CONSTITUENT:

400 g/L FLUROXYPYR present as the METHYLHEPTYL ESTER

SOLVENTS: 314 g/L LIQUID HYDROCARBONS

46 g/L N-METHYL-2-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.

APVMA Approval No.: 92228/149931

EC Formulation Type
Emulsifiable
Concentrate

**BE PROUDLY
AUSTRALIAN**

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 **QUANTUM
AGROSCIENCES**

DIRECTIONS FOR USE

Restrains:

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.

Specific definitions for terms used in this section of the label can be found at apvma.gov.au/spraydrift

DO NOT allow bystanders to come into contact with the spray cloud. 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. 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 to two hours after sunrise.

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 product with water.

See General Instructions – Application Method for application details

WEEDS CONTROLLED	WEED GROWTH STAGE	STATE
Bathurst burr Noogoora burr	Seedlings and young plants up to 40 cm high	NSW, NT, Qld, WA only
Black bindweed (climbing buckwheat)	Seedlings and young plants before flowering	NSW, Qld only
<i>Mimosa pigra</i>	Apply from mid to late summer	NT, WA only
Common sensitive plant	Seedlings and young plants up to flowering	Qld, WA only
Bellyache bush		Qld, NSW, WA only
Blackberry nightshade Bokhara clover		NSW, Qld only
Caltrop (yellow vine) (<i>Tribulus terrestris</i>) (<i>T. micrococcus</i>)		Seedlings and young plants up to 30 cm diameter
Cobblers pegs	Up to 15 cm high	
Cockspur thorn	Up to 3 m high	
Creeping lantana	At flowering	
Crofton weed Mistflower	Seedlings and young plants up to flowering	
Docks (<i>Rumex</i> spp.)	Seedlings and rosettes up to 30 cm high	
Hexham scent	Seedlings and young plants up to flowering	
Honey locust	Seedlings and young plants up to 2 m high	
Small flowered mallow (Marshmallow) (<i>Malva parviflora</i>)	Seedlings and young plants up to flowering	
Yellowflower Devil's claw	Seedlings and young plants up to flowering	

RATE / 100 L water	CRITICAL COMMENTS
38	
150	Add Uptake* Spraying Oil (see General Instructions; Oils and surfactants).
250	
	Boom spray: Fluroxypyr at 0.3 L/ha + 0.4 L/ha of 2,4-D amine (625 g/L)

WEEDS CONTROLLED	WEED GROWTH STAGE	STATE
Lantana	Seedlings and regrowth 0.5 to 1.2 m high	NSW, Qld only
	Plants and regrowth 1.2 to 2 m high	
Blue heliotrope	Flowering	
Limebush	Infestations up to 1.5 m high only	
Madeira vine	Apply at time of active growth	Qld only
Milkweed (<i>Euphorbia heterophylla</i>)	3 leaf to flowering	
Common sowthistle	Seedlings and young plants up to bolting	
Mother-of-millions (<i>Kalanchoe</i> spp.)	Seedling and young plants before flowering	NSW, Qld only
Prickly acacia	Seedling and young plants up to 2 m high	Qld only
<i>Sida</i> spp.	Seedling and young plants up to flowering	NSW, NT, Qld, WA
Broadleaf Pepper tree (<i>Schinus terebinthifolius</i>)	Mature leaves, fruiting	Qld only
Flannel weed (<i>Sida cordifolia</i>)		
Snakeweed (Dark and light blue)	Seedling and young plants before flowering	Qld, NT, WA
Stinking Passion Flower	Established plants and regrowth	
Wandering jew (<i>Tradescantia albiflora</i>)	Young plants up to and including flowering	All States
Wattles (including <i>Acacia aulacocarpa</i> , <i>A. decora</i> , <i>A. harpophylla</i> , <i>A. leiocalyx</i> <i>A. salicina</i>)	Seeding plants or regrowth 0.5 to 1.2 m high	NSW, Qld only
	Plants or regrowth 1.2 to 2.0 m high only	
BASAL PARK AND CUT STUMP APPLICATION: Dilute product with diesel. See General Instructions – Application Method for application details		
WEEDS CONTROLLED	WEED GROWTH STAGE	STATE
Celtis (<i>Celtis sinensis</i>)	Basal Bark only: Young plants up to 2 m high and 20 cm basal diameter	Qld only
Chinee apple	Up to 15 cm basal diameter	
Cockspur thorn	Basal Bark only: Up to 5 cm basal diameter	

RATE / 100 L water	CRITICAL COMMENTS
250	Apply to actively growing plants from October to April. Some regrowth may occur particularly when treating old woody plants with sparse canopies.
500	
250	Repeat applications will be necessary to control subsequent germinations.
500	
250	
300	Add a surfactant (see GENERAL INSTRUCTIONS; Oils and surfactants).
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.
375	Add Uptake* Spraying Oil (see GENERAL INSTRUCTIONS; Oils and surfactants).
225	Use 70mL/15 L 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 particularly when treating old woody plants with sparse canopies and under dry conditions.
500	
RATE /100 L of DIESEL	CRITICAL COMMENTS
1.8	Treat stems from ground level to where multi-stemmed trunks branch.
1.5	With basal bark, treat circumference of stem to a height of 45 cm from the ground. Contact the Land Protection Branch, Department of Lands, Qld, for further information on Chinee Apple.
1	

WEEDS CONTROLLED	WEED GROWTH STAGE	STATE
Mimosa bush (<i>Acacia farnesiana</i>)	Up to 5 cm basal diameter	Qld, WA only
Prickly acacia	Up to 10 cm basal diameter	Qld only
Honey locust	Plants up to 10 cm basal diameter	Qld, NSW only
	Plants 10 to 20 cm basal diameter	
	Plants >20 cm basal diameter	
Sisal hemp (<i>Agave</i> spp.)	All growth stages	Qld only

BROADCAST AND AERIAL APPLICATION: Dilute product with water. See General Instructions – Application Method for application details

WEEDS CONTROLLED	WEED GROWTH STAGE	STATE
<i>Mimosa pigra</i>	Actively growing plants	NT, WA only

LOW VOLUME, HIGH CONCENTRATE APPLICATION: Use a drench gun or gas-powered gun. See General Instructions – Application Method for application details

WEEDS CONTROLLED	WEED GROWTH STAGE	STATE
Limebush	Isolated bushes up to 1.2 m high only	NSW, Qld only
Tree violet (<i>Hymenanthera dentata</i>)	Apply from late flowering to green fruit up to 1.2 m high	NSW only

Table 2: Established Grass Pastures

WEEDS CONTROLLED	WEED GROWTH STAGE	STATE
Blue billygoat weed, Common sensitive plant, Giant sensitive plant, Spinyhead sida	Apply before flowering	Qld, WA only
St John's wort	Apply from bud to full bloom (usually late Nov to early Jan)	ACT, NSW and Vic only
Silverleaf nightshade	From onset of flowering to early berry-set (usually spring to mid-summer)	NSW only

RATE /100 L of DIESEL	CRITICAL COMMENTS
1.5	With basal bark, treat circumference of stem to a height of 45 cm from the ground. For cut stump application use a rate of 5 L/100 L diesel for all plant sizes. Contact the Land Protection Branch, Department of Lands, Qld, for further information on Honey Locust.
750 mL	
750 mL	
1.5	
2.5	Treat as an overall spray. Contact the Land Protection Branch, Department of Lands, Qld for advice to control large infestations.
1.5	
5 mL undiluted product per plant	Lever out centre of plant with crowbar and immediately treat the exposed cut area

RATE /ha	CRITICAL COMMENTS
1.5L	Aerial application: Add Uptake Spraying Oil at the rate of 1 L/100 L 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 / 10 L water	CRITICAL COMMENTS
500 mL	Apply a 50 mL dose per 5m ² of bush surface area.
	Apply a 50 mL dose per cubic metre of bush

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

Table 3: Sorghum, Maize, Millets and Sweet corn (NSW & Qld only)			
CROP	CROP GROWTH STAGE	WEEDS CONTROLLED	WEED GROWTH STAGE
Sorghum	Apply when secondary roots are present, from 4 fully expanded leaves (15 cm tall) up to boot (also see CRITICAL COMMENTS)	Annual ground cherry, Wild gooseberry (<i>Physalis</i> spp.)	2 to 8 leaf Up to 15 cm tall 15 to 30 cm tall
		Apple-of-Peru	Seedling plants up to 15 cm tall
		Bathurst burr, Noogoora burr	2 to 8 leaf Up to 20 cm tall 20 to 50 cm tall
Maize & Sweet corn	Apply when secondary roots are present, from 3 fully expanded leaves (10 cm tall) up to just before tasselling (see CRITICAL COMMENTS)	Pigweed (<i>Portulaca oleracea</i>)	Up to 10 cm diameter 10 to 30 cm diameter
		Sesbania pea	2 to 6 leaf Up to 10 cm tall
		Silverleaf nightshade (NSW only) (1) Starburr (<i>Acanthospermum hispidum</i>) (Qld only) Thornapples (<i>Datura</i> spp.) Volunteer sunflower	Full flower to early berry Up to 12 leaf and before flowering 2 to 8 leaf Up to 15 cm tall 2 to 5 leaf Up to 20 cm tall

RATE /ha	CRITICAL COMMENTS
250mL	Sorghum: From 8 leaf to boot stage, use dropper nozzles to prevent herbicide coming in contact with the crop's leaves and the growing point (meristem).
375mL	
250mL	
375 mL	Maize and sweet corn: From 6 leaf to just before tasselling, use dropper nozzles to prevent the herbicides coming in contact with the crop's leaves and the growing point (meristem).
250 mL	
375 mL	
750 mL	Millets: DO NOT use mixes with atrazine. (1) This treatment may be slightly damaging to the crop. To minimise crop damage apply using dropper nozzles at all crop stages.
375 mL + Uptake at 300mL/100L	
750 mL or 375 mL + 1.6 L atrazine (600 g/L)	
375 mL	
500 mL	

Fluroxypyr in tank-mixes with atrazine: Sorghum, Maize and Sweet corn.			
CROP	CROP GROWTH STAGE	WEEDS CONTROLLED	WEED GROWTH STAGE
Sorghum, Maize & Sweet corn	Spray when secondary roots have developed, usually early to mid-tillering and not later than before heads start to form at the base of the tillers (See CRITICAL COMMENTS)	<i>Amaranthus</i> spp. Including: Boggabri weed, Dwarf amaranth, Green amaranth, Redshank, Anoda weed, Bladder ketmia, Black pigweed (<i>Trianthema portulacastrum</i>), Caltrope (yellow vine) including <i>Tribulus terrestris</i> , <i>T. microccus</i> and <i>T. maximus</i> , Cowvine (peach vine) (<i>Ipomoea lonchophylla</i>), Hairy wandering jew (<i>Commelina benghalensis</i>), Mintweed	Seedling plants up to 15 cm tall or rosettes up to 15 cm diameter
		<i>Euphorbia davidii</i>	Cotyledons to 4 nodes up to 15 cm
		Volunteer peanuts	Up to 15 cm diameter

Sweet corn: Tasmania only			
Sweet corn only	3 to 5 leaf	Blackberry nightshade, Volunteer potatoes	3 to 5 leaf

Table 4: Winter Cereals (Wheat, Barley, Oats and Triticale)			
CROP GROWTH STAGE	WEEDS CONTROLLED	WEED GROWTH STAGE	STATE
Apply from 3 leaf to flag (Zadoks 13 to 39)	Bedstraw (<i>Galium tricornutum</i>)	1 to 3 whorl	Vic, SA, WA only
	Cleavers (<i>Galium aparine</i>)		NSW, Vic only
	Black bindweed (Climbing buckwheat)	2 to 4 leaf	NSW, Qld only
	2 to 6 leaf		

RATE /ha	CRITICAL COMMENTS
250 mL + 1.2 L of atrazine flowable (600 or 675 g/L) or 375 mL + 1.6 L of atrazine flowable (600 g/L or 1.1 kg of Atrazine 900 g/kg granules)	<p>Use the low rate (250 mL + 1.2 L) when weeds are small (5-7 cm tall/ diameter).</p> <p>Use the high rate (375 mL + 1.6 L) when the weeds are larger (7 - 15 cm tall/ diameter).</p> <p>Fluroxypyr is generally more compatible with Liquid atrazine products (see GENERAL INSTRUCTIONS; compatibility section).</p> <p>Add a surfactant (See GENERAL INSTRUCTIONS; Oils and surfactants).</p> <p>DO NOT add an oil to mixtures of Fluroxypyr and atrazine.</p>
500 mL + 1.6 L atrazine flowable (600 g/L or 1.1 kg of Atrazine 900 g/kg granules)	
500 mL + 3.7 L atrazine flowable (600 g/L or 2.5 kg of Atrazine 900 g/kg granules)	
500 mL	
RATE /ha	CRITICAL COMMENTS
500mL	(1) Add either Uptake or a surfactant (see GENERAL INSTRUCTIONS: Oils and surfactants).
250 mL (1)	Useful suppression only.
375 mL or 250 mL + 5 g Metsulfuron methyl (1)	Mixtures: Mixing partners with Fluroxypyr may reduce crop selectivity. Apply at crop growth stages according to the mixing partner's recommendation.

CROP GROWTH STAGE	WEEDS CONTROLLED	WEED GROWTH STAGE	STATE
Apply from 3 leaf to flag (Zadoks 13 to 39) – continued	Common sowthistle (<i>Sonchus oleraceus</i>)	2 to 5 leaf	NSW, Qld only
	Deadnettle	2 to 6 leaf	
	Spiny emex (Doublegee, Three cornered jack)	2 to 4 leaf	NSW, SA, Qld, WA only
	Prickly lettuce	2 to 5 leaf	NSW, Qld, Tas, Vic, WA only
	Volunteer lupins	2 to 8 leaf	NSW, Vic, WA only
	Volunteer potato	10 to 15 cm tall	WA and Tas only
	Wireweed	2 to 3 leaf	NSW, Qld, SA, Tas, Vic, WA NSW, Qld only
	Bittercress (<i>Coronopus didymus</i>), Mustards, Shepherd's purse, Turnip weed, Wild radish, Wild turnip	Up to 8 leaf and up to 15 cm diameter	Qld, NSW, Vic, SA, Tas, WA only

RATE /ha	CRITICAL COMMENTS
500 mL	Mixtures: Mixing partners with Fluroxypyr may reduce crop selectivity. Apply at crop growth stages according to the mixing partner's recommendation.
750 mL or 250 mL + 5 g Metsulfuron methyl (1)	
500 mL	
750 mL	
250 mL + 5 g Metsulfuron methyl (1)	
250 mL to 1.5 L + Metsulfuron methyl (1) or Eclipse (1) or MCPA LVE or MCPA amine	Plants 15 to 30 cm tall will only be suppressed.
	The Fluroxypyr rate depends on what other weeds are present as listed above. See Mixtures comment above. Metsulfuron methyl (600 g/kg) @ 5 g/ha (this mix does not control wild radish). Eclipse @ 5-7 g/ha (use the 5 g rate on turnip weed only). MCPA LVE (500 g/L) @ 700 mL/ha. MCPA Amine (500 g/L) @ 1.0 L/ha.

Table 5: Summer Fallow		
WEEDS CONTROLLED	WEED GROWTH STAGE	STATE
Annual ground cherry Wild gooseberry (<i>Physalis</i> spp.)	2 to 8 leaf, up to 15 cm tall	NSW, Qld only
Bathurst burr Noogoora burr	2 to 8 leaf, up to 20 cm tall	NSW, Qld, Vic, WA only
Bellvine	Pre-flowering	NSW, Qld only
Bladder ketmia	4 to 8 leaf, up to 10 cm tall	
Cowvine (Peach vine) (<i>Ipomoea lonchophylla</i>)	2 to 10 leaf up to 10 cm diameter	

RATE /ha	CRITICAL COMMENTS
375mL (2)	(1) Add Uptake* Spraying Oil (see GENERAL INSTRUCTIONS; Oils and surfactants). 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).
250 mL + 1.2 L Glyphosate 450	(2) Delay treatment until the maximum number of shoots have emerged, but before the onset of fruiting (late summer). DO NOT treat plants showing symptoms from previous treatment. Use the high rate when longer term weed control (6-10 months) is required and delay planting crops during this period. The low rate will require follow-up treatments.

WEEDS CONTROLLED	WEED GROWTH STAGE	STATE
Caltrope (yellow vine), including <i>Tribulus terrestris</i> , <i>T. maximus</i> and <i>T. microccus</i>	Up to 15 cm diameter	NSW, Qld only
Pigweed (<i>Portulaca oleracea</i>)	Up to 10 cm diameter	
	Up to 60 cm diameter	
<i>Polymeria pusilla</i>	2 to 10 leaf up to 20 cm diameter	
Rhynchosia	Seedlings to early flowering	NSW, Qld, WA only
Smallflower mallow or Marshmallow (<i>Malva parviflora</i>)	Up to 8 leaf up to 20 cm diameter	
Thornapples (<i>Datura</i> spp.)	2 to 8 leaf up to 15 cm diameter	
Sesbania pea	2 to 6 leaf up to 10 cm tall	NSW Qld only
Perennial Ground Cherry (<i>Physalis virginiana</i>) ⁽²⁾	Bud to early flowering up to 20 cm tall	
Silverleaf nightshade	Full flower to early berry-set (usually Dec – Feb)	NSW only
Volunteer peanuts	Up to 15 cm diameter	Qld only
Volunteer sunflowers	2 to 5 leaf up to 20 cm	NSW, Qld only

RATE /ha	CRITICAL COMMENTS
250 mL + 1.0 L Glyphosate 450	<p>(1) Add Uptake* Spraying Oil (see GENERAL INSTRUCTIONS; Oils and surfactants). 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).</p> <p>(2) Delay treatment until the maximum number of shoots have emerged, but before the onset of fruiting (late summer). DO NOT treat plants showing symptoms from previous treatment. Use the high rate when longer term weed control (6-10 months) is required and delay planting crops during this period. The low rate will require follow-up treatments.</p>
375mL (1)	
375 mL + 1.0 L Glyphosate 450	
500 mL (1) or 250 mL + 1.2 L Glyphosate 450	
500 mL (1) or 190 mL + 800 mL Glyphosate 450	
500 mL (1)	
375 mL (1) or 250 mL + 1.2 L Glyphosate 450	
750 mL (1) or 250 mL + 1.2 L Glyphosate 450	
750 mL or 1.5 L (1)	
375 mL or 190 mL + 1.2 – 1.6 L 2,4-D amine (625 g/L)	
500 mL + 3.7 L atrazine flowable (600 g/L)	Add a surfactant (see General Instructions; Oils and surfactants). Important: See GENERAL INSTRUCTIONS; compatibility section).
500 mL	Add Uptake Spraying Oil (see General Instructions; Oils and surfactants section).

WEEDS CONTROLLED	WEED GROWTH STAGE	STATE
Bedstraw (<i>Galium tricornutum</i>)	Up to 5 whorl	Vic, SA, WA only
Cleavers (<i>Galium aparine</i>)		NSW, Vic only
Black bindweed (Climbing buckwheat)	2 to 8 leaf up to 10 cm diameter	NSW, Qld only
Common sowthistle (<i>Sonchus oleraceus</i>)	2 to 5 leaf up to 10 cm diameter	
Prickly lettuce, Spiny emex (Doublegee, Three cornered jack)	2 to 8 leaf	
Wireweed	2 to 3 leaf up to 10 cm tall	

CROP STAGE GROWTH	WEEDS CONTROLLED	WEED GROWTH STAGE
From early tillering to maturity	Balsum pear, Blackberry nightshade, Blue billygoat weed, Centro, Cowpea, Giant sensitive plant, Lablab bean, Noogoora burr, Phasey bean, Pinkburr, Prickly African Cucumber, Spinyhead sida, Stinking passion flower (seedlings only)	Apply from 2 to 3 leaf until flowering
	Bellvine, Morning glory, Red or pink convolvulus, Star-of-Bethlehem	
From early tillering to maturity – <i>continued</i>	Stinking passion flower	Established or ratoon plants with at least 1.0 m of regrowth
	Milkweed (<i>Euphorbia heterophylla</i>)	Seedlings and young plants up to flowering

RATE / ha	CRITICAL COMMENTS
500 mL (1)	(1) Add Uptake Spraying Oil (see GENERAL INSTRUCTIONS; Oils and surfactants section).
	(2) Add Uptake or a surfactant (see GENERAL INSTRUCTIONS; Oils and surfactants section).
375 mL (1)	When mixing with Glyphosate 450 to control both grass and broadleaf weeds, refer to the Roundup Ct label for use rates and adjuvants recommended for the grasses ((see GENERAL INSTRUCTIONS; Compatibility Section).
500 mL (1) or 250 mL + 600 mL Glyphosate 450	
750 mL (1) or 250 mL (2) + 5 g Metsulfuron methyl (600 g/kg)	
750 mL (1) or 250 mL (2) + 5 g Metsulfuron methyl (600 g/kg) or 0.5 (2) + 0.6 Glyphosate 450	
RATE /ha	CRITICAL COMMENTS
Ground: 650 mL Aerial: 750 mL	For optimal weed control, delay application until just before the “close-in” stage. Aerial application: Apply in not less than 60 L/ha water and add Uptake Spraying Oil at 1 L/100 L spray mixture. Ground application: Apply in 100 – 400 L/ha water and add Uptake Spraying Oil at 300 mL/100 L of spray mixture.
As above + 800 mL 2,4-D amine (625 g/L)	
High volume: 225 mL/100 L water Knapsack: 35 mL/15 L water	Thoroughly wet plants to the point of run-off.
1.5 L or 1.15 L + 3.3 L atrazine flowable (600 g/L)	Better control will be achieved with the atrazine mixture. Delay application until just before the cane reaches the “close-in” stage. This will improve control and minimise the number of seedlings that germinate.

Table 8: Lucerne (NSW only)		
CROP STAGE GROWTH	WEEDS CONTROLLED	WEED GROWTH STAGE
Established crops at least eighteen months old	Annual ground cherry, Bathurst burr, Noogoora burr, Wild gooseberry	2 to 8 leaf up to 15 cm high
	Pigweed	Up to 10 cm diameter

Table 9: Poppies (Tas only)		
CROP STAGE GROWTH	WEEDS CONTROLLED	WEED GROWTH STAGE
4 to 6 leaf	Cleavers, Fumitory	2 to 6 leaf
	Shepherd's purse, Wireweed	
8 to 10 leaf	Common sowthistle, Prickly lettuce	2 to 5 leaf
	Black nightshade	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.

RATE /ha	CRITICAL COMMENTS
250 mL	To minimise crop injury and to maximise weed control, cut, slash or heavily graze the lucerne before application. Wherever possible, irrigate before application to stimulate weed growth. DO NOT treat crops growing on sandy or stony soils. DO NOT treat crops after the summer growing season (after end of March). To broaden the spectrum of weeds controlled, Fluroxypyr can be mixed with 2,4-DB Amine.
RATE /ha	CRITICAL COMMENTS
500 mL	DO NOT apply Fluroxypyr to poppies later than the 8 to 10 leaf growth stage as a reduction of alkaloid content could occur.
500 mL + 5 L Asulox	
500 mL	
750 mL	This rate will provide season long control of volunteer potato but will not control all daughter tubers and will only suppress potatoes over 15 cm tall.

MINIMUM CROPPING PERIODS

Plant-Back Periods for crops following the application of fluroxypyr for rates up to 750 mL/ha.

	190 mL L/ha	375 mL L/ha	750 mL L/ha
Barley	7 DAYS	7 DAYS	7 DAYS
Wheat	7 DAYS	7 DAYS	7 DAYS
Chickpea	7 DAYS	7 DAYS	7 DAYS
Cotton	14 DAYS	14 DAYS	28 DAYS
Soybean	7 DAYS	7 DAYS	14 DAYS
Sunflower	7 DAYS	7 DAYS	7 DAYS
Maize	7 DAYS	7 DAYS	7 DAYS
Sorghum	7 DAYS	7 DAYS	7 DAYS

NOTE: Before using Fluroxypyr 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

Fluroxypyr 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 Fluroxypyr 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 Fluroxypyr. 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 (Fluroxypyr). Add spraying oils and surfactants (wettters) last.

OILS AND SURFACTANTS

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

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

COMPATIBILITY

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

Atrazine (see below)	Glyphosate 360
Metsulfuron methyl (600 g/kg)	Glyphosate 450
Broadstrike	Topik 240 EC (see below)
Eclipse	Tordon 75-D
Diclofop methyl	MCPA 420 g/L + Picloram 26 g/L
Triclopyr (600 g/L)	Touchdown
Lontrel	2,4-D
MCPA	2,4-DB

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 100 g/100 L water, before adding any herbicide may improve compatibility.

AGITATION IS VERY IMPORTANT WHEN MIXING FLUROXYPYR AND ATRAZINE.

Fluroxypyr 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 L). 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 100 mL/100 L of spray mix. DO NOT use a spraying oil when tank mixing Fluroxypyr and atrazine.

TOPIK 240 EC

Always use Uptake Spraying Oil with Fluroxypyr + Topik 240 EC tank-mixes at 500 mL/100 L of spray mix with a minimum of 250 mL/ha.

DO NOT mix Fluroxypyr 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 Fluroxypyr at more than 0.75 L/ha in tank mixes with Topik 240 EC.

GLYPHOSATE 450

When mixing Fluroxypyr 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 1.2 L/ha in tank mixes with Fluroxypyr, when barnyard grass, buttongrass, crowfoot grass, native millet and liverseed grass are the target species.

APPLICATION METHODS AND WATER RATES

BROADCAST APPLICATION IN CROPPING, PASTURE AND FALLOW SITUATIONS

A. Ground application (Boom)

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

B. 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

C. Aerial application

Apply in a minimum volume of at least 35 L/ha water (60 L/ha in sugarcane). Use equipment calibrated to produce MEDIUM to COARSE droplet size. 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 1500 kPa. To obtain good coverage, a spray volume of 1500 to 4000 L/ha (15 to 40 L/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 50 mL shots to cover 4 to 5 m² 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 30 cm from the ground, wetting the bark to the point of runoff. Apply with a paint brush or a pressure sprayer with an approximate lance and solid cone nozzle. If using spray equipment use low pressures (< 200 kPa) 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 15 cm above the ground.

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 Fluroxypyr Herbicide, 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, quarter 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 quarter fill the tank and add an alkali detergent (e.g. liquid SURF, OMO, DRIVE) at 500 mL/100 L of water or the powder equivalent at 500 g/100 L 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 sprayer. Rinse tank and spray through nozzles with water to remove degreaser. Then quarter fill the tank and add an alkali detergent (e.g. liquid SURF, OMO, DRIVE) at 50 mL/10L of water or the powder equivalent at 50 g/10 L. 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

QA Fluroxypyr 400 EC 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, Quantum Agrosiences Holdings Pty Ltd accepts no liability for any losses that may result from the failure of this product to control resistant weeds.

Strategies to minimise the risk of herbicide resistance are available. Contact your farm chemical supplier, consultant, local Department of Agriculture, or Quantum Agrosiences 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. Fluroxypyr can be damaging to susceptible crops during both growing and dormant periods. Grasses are normally unaffected by Fluroxypyr and establish quickly after treatment. Transitory damage can occur on some species particularly those that spread by stolons such as Couch grass (*Cynodon dactylon*), Kikuyu grass and Carpet grass (*Axonopus* spp.).

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 THE ENVIRONMENT

DO NOT contaminate streams, rivers or waterways with the chemical or used containers. Alongside waterways, treat only noxious weeds and poisonous plants.

GROUP	4	HERBICIDE
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STORAGE AND DISPOSAL

Store in the closed original container in a dry, 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 to an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose, clear of waterways, desirable vegetation and tree roots, in compliance with relevant local, state or territory government regulations. DO NOT burn empty containers or product.

For Refillable Containers: Store in the closed, original container in a dry, cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight. 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

Avoid contact with eyes and skin. When opening the container, 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, a face shield or goggles. Wash hands after use. 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 11 26. If swallowed, do NOT induce vomiting. If in eyes, wash out immediately with water.

SAFETY DATA SHEET

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

CONDITIONS OF SALE: Quantum Agrosciences Holdings 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 rely on Quantum Agrosciences Holdings 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 Quantum Agrosciences Holdings Pty Ltd has any authority to add to or alter these conditions.

Additional information required under the Globally Harmonised System (GHS) classification of the substance/mixture: **Combustible liquid. May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. May damage the unborn child. Very toxic to aquatic life with long-lasting effects. Repeated exposure may cause skin dryness and cracking.** Obtain special instructions before use. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. Avoid breathing mist, vapours or spray. Wash hands, arms and face thoroughly after handling. Use only outdoors or in a well-ventilated area. Avoid release to the environment. IF ON SKIN: Wash with plenty of soap and water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical advice/attention. Call a POISON CENTER or doctor/physician if you feel unwell. Specific treatment see Safety Directions on product label. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. In case of fire: Use carbon dioxide, foam or dry agent for extinction. Collect spillage. Store locked up.



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