CAUTION

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



HERBICIDE

ACTIVE CONSTITUENT:

510 g/L GLYPHOSATE present as the ISOPROPYLAMINE SALT



A non-selective water soluble herbicide for the control of a wide range of annual and perennial weeds in a wide variety of situations as per Directions For Use table.

IMPORTANT: READ THE ATTACHED LEAFLET BEFORE OPENING OR USING THIS PRODUCT



Indigo Specialty Products Pty Ltd ABN 15 631 459 660 3/49 Donaldson Road, Rocklea QLD 4106 Ph: 0491 201 694

20 L

Rapid Fire 510

HERBICIDE

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 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.



Product will irritate eyes and skin. Avoid contact with eyes and skin. When using controlled droplet applicator wear protective waterproof clothing and impervious footwear. When preparing product for use wear elbow length PVC gloves and face shield or goggles. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves, face shield or goggles and contaminated clothing.

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 131126, New Zealand 0800 764 766.

SDS

Additional information is listed in the safety data sheet (SDS). A safety data sheet for RAPID FIRE 510 SL is available from Indigo Specialty Products Pty Ltd on request.

CONDITIONS OF SALE:

Seller warrants that the product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use. No warranty (other than non-excludable statutory warranties) of merchantability or fitness for a particular purpose, express or implied, extends to the use of the product contrary to label instructions, or under off-label permits not endorsed by Indigo Specialty Products Pty Ltd or under abnormal conditions. Indigo Specialty Products Pty Ltd accepts no liability for any loss or damage arising from incorrect storage, handling or use.



O417 653 654

ALL HOURS - AUSTRALIA WIDE



Date of Manufacture

Batch No.

APVMA Approval No.: 64362/122760

PROFORCE RAPID FIRE 510 – 36PP LEAFLET FLAT SIZE: 504 MM WIDE X 339 MM DEEP FOLDS TO: 84 MM WIDE X 113 MM DEEP DATE: 08/12/2019

Rapid Fire 510

DIRECTIONS FOR USE

RESTRAINTS:

DO NOT disturb treated weeds by grazing, cultivation or sowing for 6 hours of daylight following treatment of annual weeds and seven days for perennial weeds to ensure herbicide absorption, unless specified in the critical comments.

DO NOT treat weeds under any stress from frost, cold disease, waterlogging, lack of moisture or disease. Plants must be actively growing to ensure optimum uptake of the product.

	product.	1	1	
SITUATION	WEEDS CONTROLLED	STATE	RATE L/ha	CRITICAL COMMENTS
SOUTHERN AUSTRALIA Before sowing a crop or pasture. For weed control prior to	Barley Grass (Hordeum leporinum), Brome Grass (Bromus unioloides), Volunteer Cereals, Wild Oats (Avena fatua)	NSW, ACT, Vic, SA, WA only	350 mL-700 mL pre tillering 700 mL-900 mL post tillering	Use the Higher Rate when treating in cold/overcast conditions, when using late in the season. Use the lower rate on young weeds and the higher rate on mature weeds, ie fully tillered grasses or broadleaf weeds at budding or stem elongation. If weeds have been grazed heavily remove stock prior to spraying
sowing a crop or pasture with full soil disturbance by cultivation or sowing with a tyned implement	Annual Phalaris (<i>Phalaris canarienis</i>), Annual Ryegrass (<i>Lolium rigidum</i>), Silvergrass (<i>Vulpia</i> spp.), Wiinter Grass (<i>Poa annua</i>)		700-900 mL pre-tillering 900 mL-1 L post tillering	to ensure regrowth to 6-8 cm before treatment and use the higher rate. Cultivation or planting may proceed from 1 hour of daylight after application to seedling annual weeds if a satisfactory seedbed can
	Capeweed (Arctotheca calendula), Spiny Emex / Doublegee (Emex australis)		350 mL-700 mL less than 8 cm diameter 700 mL-900 mL greater than 8 cm diameter	be created for crop germination and seedling establishment. If cultivation or sowing does not take place within 21 days retreatment may be necessary. Annual Ryegrass, Silvergrass and Perennial grasses - It is recommended to use a water volume of 70 L/ha or more with low
	Amsinkia (Amsinkia), Fumitory (Fumaria officinalis, F. muralis), Paterson's Curse/Salvation Jane (Echium plantaginium), Saffron Thistle (Cathamus lanatus), Scotch Thistle (Onopordum acanthium), Spear Thistle (Circium vulgare), Variegated Thistle (Silybum marianum), Volunteer Lupins (Lupinus angustifolius), Wild Turnip (Brassica tournefortii)		700-900 mL less than 12 cm diameter/ height 900 mL-1 L greater than 12 cm diameter/ height	volume nozzles to improve control. Addition of BS1000 at 200 mL/100 L spray solution may improve control. Crop Establishment: Sowing should not proceed until conditions allow for the formation of satisfactory seedbed. See Crop Establishment for directions. Tank Mixtures: For improved control of clover add dicamba. Read and follow all label directions for the tank mix product. For perennial weeds, perennial phalaris, Soursob, Skeleton Weed and Sorrel this product will provide knockdown, seasonal suppression and reduction in treated plant numbers
	Dock seedling (Rumex crispus)		700 mL-1 L	
	Perennial Phalaris (<i>Phalaris</i>), Sorrel (<i>Rumex acetosella</i>), Sub Clover (<i>Trifolium subterraneum</i>), Soursob (<i>Oxalis pescaprae</i>), Skeleton Weed (<i>Chondrilla juncea</i>) - fully emerged rosettes (NSW only)		1 L	
	All the above weeds	Tas only	1L-2L	Tas only: Use 1 L on annual weeds and 2 L on perennial weeds. The product may also be tank mixed with dicamba to improve control of sorrel, dock and white clover. Observe dicamba label directions and plant back periods. Addition of BS1000 at 200 mL/100L spray solution may improve control.
SOUTHERN AUSTRALIA Before sowing a crop or pasture.	Barley Grass <i>(Hordeum leporinum),</i> Volunteer Cereals, Wild Oats <i>(Avena fatua)</i>	NSW, ACT, VIC, WA, SA	700 mL - 1.0 L	Use the Higher Rate when treating in cold/overcast conditions, when using late in the season. Use the lower rate on young weeds and the higher rate on mature weeds, ie fully tillered grassess or broadleaf
For weed control prior to sowing a crop or pasture with minimal or no soil disturbance	ng a crop or pasture minimal or no soil (Arctotheca calendula), (Arctotheca C	only	900 mL - 1.4 L	weeds at budding or stem elongation. If weeds have been grazed heavily remove stock prior to spraying to ensure regrowth to 6-8 cm before treatment and use the higher rate. Annual Ryegrass, Silvergrass and Perennial grasses - it is recommended to use water volumes of 70 L/ha or more with low volume nozzles to improve control. Addition of BS1000 at 200
	Annual Ryegrass (Lolium rigidum), Paterson's Curse/Salvation Jane (Echium plantaginium), Saffron Thistle (Carthamus lanatus), Scotch Thistle (Onopordum acanthium), Silvergrass (Vulpia spp.), Spear Thistle (Circium vulgare), Wild Mustard (Sisymbrium officinale), Wild Turnip (Brassica tournefortii)		1.0 - 1.3 L mL tras were Aer has Tan add pro treat	mL/100 L spray solution may improve control. Do not sow if heavy trash is present. Seeding may proceed 1 day after spraying annual weeds and 7 days after spraying perennial weeds. Aerial Application: May be applied by air provided a good seed bed has been established. Always uses the higher rates. Tank Mixtures: For improved control of dock, sorrel and sub-clover add dicamba. Read and follow all label directions for the tank mix product. Addition of Liase 2 L/100 L may improve control when treating under adverse environmental conditions.
	Erodium (Erodium cicutarium), Plantain (Plantago spp.), Perennial Phalaris (Phalaris aquatica), Sorrel (Rumex acetosella), Sub Clover (Trifolium subterraneum)		1.2 - 1.8 L	Pasture or Crop Establishment: DO NOT sow into excessive trash. Cultivation or planting may proceed from 1 hour of daylight after application to seedling annual weeds if a satisfactory seedbed can be created for crop germination and seedling establishment. Trash may be removed by grazing after 6 hours for treatment of annual weeds (small) and 7 days for perennial weeds. Delay grazing for 3
	Dock (Rumex spp.), Flatweed (Hypochoeris)		1.8 L	days where annual weeds are large. See also Crop Establishment. Aerial (or Surface) Seeding: Delay seeding until trash is completely removed by grazing and/or plant decay. When establishing pasture, ensure application of fertiliser and insecticides and follow-up management is undertaken as required.
	All weeds listed above	TAS only	1 L – 2 L	TAS ONLY: Use 1 L on annual weeds and 2 L on perennial weeds. The product may also be tank mixed with dicamba to improve control of sorrel, dock and white clover. Observe dicamba label directions and plant back periods. Addition of BS1000 at 200 mL/100 L spray solution may improve control.
SOUTHERN AUSTRALIA For weed control before a fallow	Barley Grass (Hordeum leporinum), Volunteer cereals, Wild Oats (Avena fatua)	NSW, ACT, VIC, WA, SA	700 mL - 1.0 L	Use the Lower Rate on young weeds or where cultivation is to take place within 21 days. Use the Higher Rate where broadleaf weeds reach stem elongation/
	Annual Ryegrass (Lolium rigidum), Brome Grass (Bromus unioloides), Silvergrass (Vulpia spp.), Capeweed (Arctotheca calendula), Paterson's Curse/Salvation Jane (rosette) (Echium plantaginium), Saffron thistle (Carthamus lanatus), Scotch thistle (Conopordum acanthium), Spear thistle (Circium vulgare), Wild Mustard (Sisymbrium orientale), Wild Radish (Raphanus raphanistrum), Wild Turnip (Brassica tournefortii)	only	1.0 - 1.3 L	budding or where grasses are fully tillered. If weeds have been grazed heavily remove stock prior to spraying to ensure regrowth to 6-8 cm before treatment and use the higher rate. Soursob - Treat at tuber exhaustion Hoary Cress - Treat from late rosette to early flowering. Annual Ryegrass, Silvergrass and Perennial grasses - It is recommended to use water volumes of 70 L/ha or more with low volume nozzles to improve control. Addition of BS1000 at 200 mL/100 L spray solution may improve control.
	Hoary Cress (Cardia draba) Soursob (Oxalis pescaprae)		1.0 L	

SITUATION	WEEDS CONTROLLED	STATE	RATE L/ha	CRITICAL COMMENTS
NORTHERN AUSTRALIA For weed control prior to sowing a summer or	Annual Phalaris (<i>Phalaris</i>), Barley Grass (<i>Hordeum</i> <i>vulgare</i>), Volunteer cereals, Wild Oats (<i>Avena fatua</i>)	NSW, QLD only	350 -700 mL	Use the Lower Rate on young weeds or where cultivation is to take place within 21 days. Use the Higher Rate where broadleaf weeds reach stem elongation/budding or where grasses are fully tillered.
winter crop or in a fallow	Barnyard Grass (Echinochloa crus-galli), Liverseed grass (Urchloa spp.), Lovegrass/Stink Grass (Eragrostis curvula), Sweet summer grass, Volunteer Sorghum (Sorghum halepense)		700 mL - 1.4 L	At more advanced stages certain broadleaf weeds may require the higher rate range or the addition of 2,4-D. In winter (cold) conditions, symptoms on Deadnettle may be slow to develop. If weeds have been grazed heavily remove stock prior to spraying to ensure regrowth to 6-8 cm before treatment and use the higher rate.
	Aust Bluebell (QLD only), (Wahlenbergia gracilis), Cudweed (Gnaphailum luteo-album), Fumitory (Fumaria officinalis), Mexican Poppy (Argemone ochroleuca), Mintweed (Salvia reflexa), New Zealand Spinach (Tetragonia tetragonoides), * Noogoora Burr (Xanthium pungens), Saffron Thistle (Carthamus lanatus), Spear Thistle (Circium vulgare), Spurge (Euphorbia spp.), * Variegated Thistle (Silybum marianum), *Volunteer sunflower, Yellowvine/Caltrop (Tribulis terrestris), Wireweed (Polygonum aviculare)		700 mL - 1.0 L	Liverseed Grass and Barnyard Grass may be very sensitive to moisture stress. Dense stands may require re-treatment. For aerial application see General Instructions. Do not apply by air if temperature is over 30°C. *Larger plants (>5 cm) of Noogoora Burr, Variegated Thistle and Volunteer Sunflower may require up to 1.3 L/ha to achieve control. Crop Establishment: Sowing should not proceed until conditions allow for formation of a satisfactory seedbed. See Crop Establishment for directions. Sowthistle: previously grazed plants may be difficult to control without allowing full recovery.
	Boggabri weed (Amaranthus macrocarpus), Caltrop (Tribulis terrestris), Indian Hedge Mustard (Sisymbrium orientale), Mintweed (Salvia reflexa), Summer grass (Digitaria ciliaris)		350-700 mL up to 3 cm in height or diameter or up to 5 true leaves OR 700 mL - 1.0 L greater than 3 cm in height or diameter or 5 true leaves.	
	Annual Ground Cherry (Physalis angulata), Bladder Ketmia, Sowthistle (Sonchus oleraceus), Turnip Weed (Rapistrum rugosum), Wild Lettuce (Lactuca saligna), Wild Turnip (Brassica tournefortii)		700 mL - 1.0 L prior to stem elongation/budding OR 1.0 - 1.3 L after stem elongation/budding	

SITUATION	WEEDS CONTROLLED	STATE	RATE L/ha	CRITICAL COMMENTS
Pasture with Poa Tussock present as a weed. For pasture renovation	Annual weeds (see previous table) and Poa tussock (<i>Poa labillardii</i>)	QLD, NSW, ACT, VIC TAS only	2.1 - 2.8 L	Before spraying *graze heavily *remove stock 14 days or more before treatment *apply after autumn break when plants are actively growing but before frosts begin (March-May). Increasing to the higher rate may give more effective reductions. Sowing of new pasture may begin 14 days after application. It is essential that correct follow-up pasture establishment and management occurs after treatment. Spot treatment will limit re-infestation. May be aerially applied.
Pasture with Bent Grass present as a weed. For control/ suppression of Bent Grass before sowing a crop or pasture	Annual weeds (see Annual Weeds table) and Bent Grass <i>(Agrostis tenuis)</i>	TAS, VIC only	1.8 L	Apply late spring when seed heads have developed but before the onset of summer moisture stress. Remove stock prior to spraying to achieve good foliage cover. Ensure plants are actively growing. 10-21 days after spraying fully disturb soil with a tyned implement and then sow summer crop and/or re-seeded pasture or crop the following autumn.
Pasture Topping for the reduction	Annual Ryegrass (Lolium rigidum), Calomba daisy (Pentzia suffruticosa)	NSW, ACT, VIC, SA, WA,	330 mL	Use the Higher Rate for heavy infestation or where annual ryegrass is present. Apply before "haying off".
of seed set of annual grasses, Capeweed and Calomba daisy	Barley Grass (Hordeum leporinum),		210-330 mL	Annual Ryegrass and Capeweed - Apply at Flowering. Other Weeds - Apply at head to milky dough stage. Stock should be removed before spraying to allow regrowth. Pasture legumes may be affected. Do not apply to medic/clover crops to be used for hay or seed. Apply a maximum of 50 L/ha water. Above this water volume add a non-ionic surfactant.
Pasture manipulation for the control/suppression of certain grasses before	Carpet Grass (Xonopus spp.), Kikuyu (Pennisetum clandestinum), Paspalum (Paspalum dilatatum)	WA, NSW, ACT, VIC only	1.0-4.2 L	Apply the Lower Rate for suppression only. The Higher Rate will provide control. Leaucana - (QLD ONLY) Rows should be 4 m apart. Use 1.8 L/ha with single taper fan nozzle LFI-
sowing soybeans, forage crops or Leucaena	Carpet Grass, Paspalum	QLD only	1.0-4.2 L	80 mounted at the rear of a single row planter giving a 1 m swath.
	Kikuyu		440 mL-4.2 L	
	Black spear grass (Hederopogon contortus), Wire grasses (Aristida spp.), Love Grasses (Eragrostis spp.), Red Natal Grass (Rhynchelytrum repens), Barbed Wire Grass (Cymbopogon refractrus)		2.1 L	

SUGAR CANE (RATOON CONTROL) FOR OLD AND NSW ONLY

SITUATION	VARIETY	RATE /ha	CRITICAL COMMENTS
Sugar Cane Ratoon Control	Q63, Q87, Q90, Q102, Q117, Q120, Q129, Q130, H56-752, Pindar, Triton	2.1-2.8 L	Apply when ratoons are actively growing and are 60-100 cm tall. DO NOT apply if plants are under stress from water logging or low moisture.
	Q86, Q96, Q113	2.8-3.5 L	Use the Lower Rate for suppression or when control by cultivation is planned. Use the Higher Rate for control. Boom height must allow for correct overlap of the spray pattern
	Cassius, Q115, Q122, Q94	3.5-4.2 L	at the top of the crop canopy.
	NC0210 0107	42621	

RICE DIRECT DRILLING FOR NSW ONLY

SITUATION	WEEDS CONTROLLED	RATE /ha	CRITICAL COMMENTS
Rice Direct Drilling	Annual Ryegrass (Lolium rigidum), Annual Phalaris (Phalaris canariensis), Barley Grass (Hordeum leporinum), Burr Medic (Medicago spp.), Sub Clover (Trifolium subterraneum), Winter Grass (Poa annua)	700-900 mL	If plants are drought stressed a pre watering must be applied. If the site has been grazed allow plants to regrow to 6-8 cm before treatment. For the control of Annual Ryegrass use the higher rate and add BS1000 at 200 mL/100 L of spray solution. Crop Sowing- Sow 1-14 days after treatment. Residual control will only be achieved by adding another suitable herbicide.

SORGHUM CONTROL

SITUATION	WEEDS CONTROLLED	STATE	RATE /ha	CRITICAL COMMENTS
Sorghum control before harvest	Grain sorghum (Sorghum bicolor)	QLD, NSW only	1.0 or 1.3 L	DO NOT apply to varieties intended for seed production or varieties prone to lodging. DO NOT apply to crop under stress from factors such as waterlogging, frost, disease, low moisture etc. Apply when grain moisture is less than 25%. The product can be applied when some browning has occurred. Use the Lower Rate for control of the crop, late tillers and ratoon regrowth. Use the Higher Rate for better suppression of ratoon regrowth. Treatment may increase potential for crop lodging especially if the crop has been stressed by low moisture. In this situation harvest as soon as possible after sufficient dry down to prevent further lodging. CAUTION: Sorghum may be naturally toxic to stock

SITUATION	WEEDS CONTROLLED	STATE	RATE /ha	CRITICAL COMMENTS
Sorghum control after harvest	Sorghum stubble (grain sorghum) (Sorghum bicolor)	QLD, NSW only	700 mL-1.0 L for new regrowth from slashed stubble 1.2-1.6 L for standing green stubble 800 mL-1.2 L for fresh spring regrowth	DO NOT apply if plants are stressed from such factors as waterlogging, frost disease, low moisture, etc. For slashed stubble and spring regrowth apply when regrowth is at least 20 cm high. Standing Stubble - apply only if sufficient green leaf is present. Allow regrowth of at least 20 cm if grazing has occurred. Use the Lower Rate for knockdown and regrowth suppression where cultivation is to follow. Use the Higher Rate for better control of regrowth. It is important to note that variable results can occur if the crop has been under stress or grown under marginal conditions. The varieties Ruby, Trump, Nugget 2, Goldrush 2 and Prize are particularly susceptible if growing conditions are not ideal. CAUITION: Sorothum may be naturally toxic to stock.

ANNUAL WEEDS - FOR ALL STATES

WEEDS CONTROLLED	RATE	CRITICAL COMMENTS
Amaranth (Amaranthus spp.), Barley Grass (Hordeum leporinum), Barnyard Grass (Echinochloa crusgalli), Brome grass (Bromus spp.) Caltrop (Tribulus terrestris), Canary Grass (Phalaris spp.), Capeweed (Arctotheca calendula), Cereals - volunteer (barley, wheats, oats, sorghum), Chickweed (Stellaria media), Cobbler's Peg (Bidens pilosa), Fumitory (Fumaria officinalis, F. muralis), Ground Cherry (Physalis angulatis), Lesser Swinecress (Coronopus didymus), Liverseed grass (Urchloa panicoides), Mintweed (Salvia reflexa), Paradoxa grass (Phalaris paradoxa), Paterson's Curse/Salvation Jane (Echium plantagineum), Pigweed (Portulaca oleracea), Potato Weed (Galinsoga parviflora), Ryegrass – annual (Lolium rigidum), Saffron thistle (Carhamus lanatus), Silvergrass (Vulpia spp.), Sow thistle (Circium vulgare), Spiny burr grass (Cenchrus spp.), Spurge (Euphorbia spp.), Spurge (Euphorbia spp.), Sub clover (Trifolium subterraneum), Wild Mustard (Sisymbrium officinale), Wild Oats (Avena fatua), Wild Turnip (Brassica tournefortii), Winter grass (Poa annua), Variegated Thistle (Silybum marianum)	BOOM 1.3-2.1 L/ha HANDGUN 350-490 mL per 100 L KNAPSACK 50-70 mL per 15 L	* Apply only to plants which are actively growing and not suffering stress. * Use the Lower Rate for weeds up to 15 cm and the Higher Rate for weeds over 15cm. * The effects of the product may take 3-7days to appear under normal conditions and up to 20-30 days in cool conditions. * NO residual control will be provided by this product. Germinations after initial treament may have to be resprayed. For residual control the product should be tank-mixed with a suitable residual herbicide.

PERENNIAL WEEDS

WEEDS CONTROLLED	STATE	APPLICATION RATES			CRITICAL COMMENTS	
		B00M L/ha	HANDGUN VOL/100 L	KNAPSACK VOL/15 L		
Bamboo (<i>Bambusa</i> spp.)	All States	-	700 mL	100 mL	Apply to actively growing foliage and/or regrowth which is between 1 and 2 m tall. Cut stump - dilute the product 1:6 ie 1 part RAPID FIRE 510 SL to 6 parts water, cu stems back 20 cm high, pour mixture down hollow stem or paint the cut.	
Bent Grass (<i>Agrostis capillaris</i>)	Vic, Tas only	1.8 L	350 mL	50 mL	Apply to plants which have some seed-head development late in the spring. Plants must be actively growing. It is necessary to follow-up spraying with full soil disturbance within 21 days and then plant to a summer crop and/or re-seed pasture or crop in autumn.	
Blady Grass (Imperata cylindrica)	NSW, ACT, Qld only	6.3 L	900 mL	140 mL	Apply to actively growing plants when most plants have reached the head stage.	
Bracken (<i>Pteridium esculentum</i>)	All States	-	1.0 L	160 mL	For best control Wiper application is recommended. Bracken should be slashed in the previous Winter/ Spring so that application is made to new growth. Apply to actively growing fully unfurled fronds in Autumn (March - May) before the onset of frost. Symptoms may be very slow to appear. Follow-up treatment is recommended as control will NOT be achieved after one treatment.	
Carpet grass (Axonopus spp.)	All States	2.1 L	350 mL	50 mL	Apply to actively growing plants at early head stage.	
Cocksfoot (Dactylis glomerata)	All States	2.1 L	500 mL	70 mL	Apply to actively growing plants at early head stage.	
Couch (Cynodon dactylon)	All States	6.3 L	900 mL	130 mL	Apply to actively growing plants when most plants are at the early head stage. For best results in WA and SA apply in Oct-November.	
Flat Weed /Cat's Ear (Hypochoeris radicata)	All States	2.1 L	500 mL	70 mL	Apply at early flower stage to fully developed rosettes.	
Guinea Grass (Panicum maximum)	All States	6.3 L	900 mL	130 mL	Apply to actively growing plants at early head stage. May be applied by Wiper equipment.	
Hoary Cress (Cardia draba)	NSW, ACT, Tas, VIC only	1.0 L	350 mL	50 mL	Apply late July to early September to actively growing plants at the late rosette to flowering stage. Ensure plants are not stressed at time of spraying. Where stems are long enough wiper equipment may be used. TAS: Add a non-ionic surfactant at the recommended rate.	
Johnson Grass (Sorghum halepense) Kangaroo Grass (Themeda australis) Kikuyu (Pennisetum clandestinum)	All States	4.2 L	700 mL	100 mL	Apply to actively growing plants at early head stage. May be applied by Wiper equipment to Johnson Grass.	
Lovegrass - African <i>(Eragrostis curvula)</i>	Vic, NSW, ACT, WA only	4.2 L	700 mL	100 mL	Apply to actively growing plants. To restrict seedling re-establishment pasture improvement is recommended.	
Nutgrass (Cyperus rotundus)	All States	4.2 L	700 mL	100 mL	Non cultivated situations: Apply to actively growing plants in February – April.	
		2.1 L	500 mL	70 mL	Cultivated Situations: Make first application when at least 20% of plants have	
		2.1 L	500 mL	+ 70 mL	reached early head stage (about Feb). Make the second application when most plants have re-emerged (about 6-8 weeks after first application). Follow up treatment may be necessary as further plants emerge.	
Pampas Grass (Cortadería spp.)	All States	-	700 mL or 900 mL	100 mL or 130 mL	Apply in spring, summer or autumn to actively growing plants. Ensure complete coverage of the foliage. Best results are obtained if plants are sprayed at flowering. Use the lower rate for plants under 1 m tall and the higher rate for larger plants. Plants may be cut prior t application but regrowth must be at least 1 m prior to spraying.	
Paragrass (Brachiara mutica)	All States	6.3 L	900 mL	130 mL	Apply to actively growing plants at early head stage.	
Paspalum (Paspalum dilatatum)	All States	4.2 L	700 mL	100 mL	Apply to actively growing plants at early head stage.	
Phalaris (<i>Phalaris aquatica</i>)	SA, VIC, NSW, ACT only	2.1 or 4.2 L	350 mL or 700 mL	50 or 100 mL	Apply in winter-spring to actively growing plants. Use Lower Rate where only knockdown is required such as prior to burning for a fire break. Burning should not take place for 2 - 3 weeks after spraying. The Higher Rate should be used for longer term control.	
Plantains (Plantago spp.)	All States	2.1 L	500 mL	70 mL	Apply to actively growing plants at the early head stage. Symptoms maybe slow to appear.	

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WEEDS CONTROLLED	WEEDS CONTROLLED STATE APPLICATION RATES		CRITICAL COMMENTS		
		BOOM L/ha	HANDGUN VOL/100 L	KNAPSACK VOL/15 L	
Prairie Grass (Bromus unioloides), Old Blue Grass (Dichanthium sericeum), Red-leg Grass (Bothriochloa ambigua), Rhodes Grass (Chloris gayana)	All States	4.2 L	700 mL	100 mL	Apply to actively growing plants at the early head stage.
Rope Twitch (Agropyron repens)	Tas, Vic only	4.2 L	700 mL	100 mL	Apply in late summer-autumn to actively growing plants with foliage at least 20 cm high. To ensure maximum shoot emergence the area should NOT be cultivated in the period from the preceding Winter until the time of spraying.
Sorrel (Rumex acetocella)	All States	4.2 L	700 mL	100 mL	Apply to actively growing plants when the majority of plants are at the early bud stage.
Soursob (Oxalis pescaprae)	NSW, ACT, VIC, TAS, WA, SA only	1.0 L	350 mL	50 mL	Apply to actively growing plants late July to early September prior to plant senescence (yellowing). Ensure plants are not stressed at time of application. If plants have been grazed or frosted allow regrowth before treatment.
St.John's Wort (Hypericum perforatum)	All States	2.1 L	350 mL	50 mL	Apply to actively growing plants at flowering to post flowering, procumbent stem stage (about Nov-May). Pasture improvement or re-treatment may be necessary to prevent seedling re-establishment.
Thistle - Artichoke (Cynara cardunculus)	SA, VIC only	2.1 L	350 mL	50 mL	Apply when plants are at the rosette to early head stage.
Thistie - Californian (Circium arvense)	Vic, Tas only	4.2 L	350 mL	50 mL	Apply to actively growing plants at the flowering stage. To ensure maximum shoot emergence the area should not be cultivated prior to spraying. Re-treatment and/or pasture improvement may be necessary to restrict seedling re-establishment.
Yorkshire Fog (Holcus lanatus)	All States	2.1 L	500 mL	70 mL	Apply to actively growing plants at the early head stage.

BRUSH AND WOODY WEEDS

WEEDS CONTROLLED	STATE	RA	NTE .	CRITICAL COMMENTS
		HANDGUN VOL/100 L	KNAPSACK VOL/15 L	
Bitou Bush/ Boneseed (Chrysanthemoides monilifera)	NSW, ACT, QLD, VIC, TAS only	350 mL or 700 mL	50 or 100 mL	Apply to actively growing plants. DO NOT treat plants which are stressed, particularly drought stressed. Spray to wet all foliage. Best results are achieved when treated during the winter at peak flowering time. Use the higher rate on larger bushes. Follow-up treatment may be required to prevent the establishment of germinating weeds.
Blackberry (Rubus fruticosus)	All States	700 mL or 900 mL	100 or 130 mL	Apply from January to May (flowering to leaf fall). Spray plants which are not under stress to thoroughly wet all foliage. Use the Higher Rate for dense, old stands over 2m high. Further treatment may be needed to control seedlings and regrowth. Symptoms may be slow to appear and may not be apparent until next season. TAS ONLY- Do not spray bushes bearing mature fruit.
Box Thorn (Lycium ferocissium)	All States	500 mL or 700 mL	70 or 100 mL	Spray to wet all foliage. Use the lower Rate for young bushes and the Higher Rate for bigger mature bushes. DO NOT spray if conditions are hot and dry. Regrowth and seedling germination may have to be retreated.
Crofton Weed (Eupatorium adenophorum)	NSW, ACT, QLD only	350 mL	50 mL	Apply to plants with full foliage which are actively growing. Spray to wet all foliage. Seedling germination may have to be retreated.
Groundsel Bush (Baccharis halimifolia)	QLD, NSW, ACT only	500 mL or 700 mL	70 -100 mL	Apply to actively growing plants using the higher rate for plants over 2 m tall. DO NOT spray during summer drought stress conditions or in winter. Spray to wet all foliage. Seedling germination may have to be re-treated.
Hawthorn (Crataegus spp.)	NSW, ACT, VIC, TAS, WA, SA only	700 mL- 900 mL	100-130 mL	Spray from flowering to leaf fall when plants are actively growing. Use the higher rate for plants over 2 m tall. Spray to thoroughly wet all foliage. Seedling regrowth may have to be retreated.
Lantana (Lantana camara)	NSW, QLD only	700 mL	100 mL	Apply to plants with full foliage which are actively growing. Spray to thoroughly wet all foliage and individual plants. Seedling regrowth may have to be retreated.
Mistflower (Eupatorium riparium)	NSW, ACT, QLD only	350 mL	50 mL	Apply to plants with full foliage which are actively growing. Spray to thoroughly wet all foliage. Seedling regrowth may have to be retreated.
Sifton Bush/ Chinese Scrub (Cassinia arcutata)	NSW, ACT, QLD only	700 mL- 900 mL	100 or 130 mL	Apply to actively growing plants ensuring complete coverage. Seedling regrowth may have to be retreated. For high volume application use the higher rate when bushes are over 1 m. For Wiper application a double pass application is required. Best results are achieved if bushes are less than 1m tall and are green at time of application.
Sweet Briar (Rosa rubiginosa)	NSW, ACT, VIC, TAS, WA, SA only	1.0 L or 1.3 L	160 or 210 mL	Apply from late flowering to leaf fall to actively growing plants. Spray to thoroughly wet all foliage. Use the Higher Rate for bushes over 1.5 m tall. Seedling regrowth may have to be retreated.

Reduction in effectiveness may result if more than 1/4 of the aboveground portion of the weed is submerged at treatment. Submerging the treated plants following treatment may result in the spray being washed from the plant surface, thus reducing effectiveness. DO NOT apply this product within 0.5 km of potable water intake in flowing water (eq. river or steam), or within 0.5 km of a portable water intake in a standing body of water such as a lake.

pond or reservoir. Applications to moving bodies of water should be made while travelling upstream whenever possible to prevent concentration of this herbicide in water When making bankside application, DO NOT overspray more than 0.5 m into open water. Avoid spraying across moving bodies of water where weeds do not exist.

DO NOT ADD EXTRA SURFACTANT/WETTER. UNLESS IT IS APPROVED IN AQUATIC SITUATIONS. When spraying floating weeds, use a low volume, low pressure boom sprayer or sprinkler sprayer. DO NOT submerge weeds when spraying as this may wash herbicide off the leaves. When emerged infestations require treatment of the total surface area of impounded water, treating the area in strips may avoid sudden impact on habitat.

WEEDS CONTROLLED	STATE	E APPLICATION RATES			CRITICAL COMMENTS
		BOOM L/ha	HANDGUN VOL/100 L	KNAPSACK VOL/15 L	
Alligator Weed	All States	4.2 L	700 mL	110 mL	Apply when actively growing, from Summer through Winter. Floating form only.
Brown beetle grass	NSW, ACT only	2.1 L	350 mL	55 mL	Apply to active growing plants. Do not apply to partially submerged plants.
Cumbungi (<i>Typha</i> spp.)	All States	6.3 L	900 mL	140 mL	Spray during Summer or Autumn period during the heading stage. Except for Tasmania, Wiper equipment can be used. Refer to Information on Application Equipment Section of the label.
Paragrass (Brachiara mutica)	All States	6.3 L	900 mL	140 mL	Spray at early head stage when plants are in active growth.
Phragmites Common Reed (Phragmites australis)	All States	6.3 L	900 mL	140 mL	If the Wiper technique is to be used, refer to "Wiper Equipment" section in this booklet. Spray when plants are getting close to early head stage and actively growing. Spray symptoms may not be observed for a season or more.
Rushes (Juncus spp.)	All States	S	ee Critical Commer	nts	Use Wiper technique ensuring a high percentage of green matter is present. Refer to
Sedge - Tall (Cyperus gracilis)	NSW, ACT, Tas, Vic only				section of this booklet entitled "Wiper Equipment" for directions of use.
Water Couch (Paspalum distichum)	All States	6.3 L	900 mL	140 mL	Spray actively growing plants in February/March period. 75% of plants should be visible above the water line at time of spraying.
Water Hyacinth	All States	4.2 L to 6.3 L	700 mL to 900 mL	110 mL to 140 mL	Apply when actively growing and at or beyond the early bloom stage of growth. Use the higher rate on dense infestations.
Water lettuce	All States	-	700 mL to 900 mL	110 mL to 140 mL	Best results are obtained from mid-summer through to winter. Use the high rate on dense infestations.
Waterlily, Yellow	All States	4.2 L	-	110mL	Apply when there is a maximum emergence of floating leaves. Allow 2-3 weeks for symptoms, then retreat any unaffected plants. Use low volume sprayer.

GENERAL USES - FOR ALL STATES UNLESS SPECIFIED

SITUATION	WEEDS CONTROLLED	RATE	CRITICAL COMMENTS
Agricultural areas	See Weeds Controlled Table for Annual and Perennial Weeds and Brush and Woody Weeds	See Weeds Controlled tables	For the control of weeds listed in "Weeds Controlled" prior to sowing of any crop.
Domestic areas, Commercial and Industrial Areas, Public Service Areas, Rights of Way		7mL per litre of water	Ensure weeds are actively growing at time of application. Complete and uniform coverage is necessary to ensure the best results. Symptoms may take 3-21 days to appear NO residual control is provided.
Forestry Situations		See Weeds Controlled tables	The product may be used: 1. In site preparation before planting. 2. Before establishment of nurseries. 3. Amongst established trees by using selective wiper equipment, directed or shielded spray. The product must NOT contact foliage or green bark of desirable trees. The wiper should not contact any part of the tree.
HORTICULTURAL CROPS Avocado, Bananas, Blueberries, Citrus fruits, Custard Apple, Duboisia, Figs (Dessert), Guava, Kiwifruit, Litchi, Mango, Monstera, Nuts (Almond, Pecan, Macadamia, Pistachio, Walnut), Olives, Paw Paw, Persimmon, Pome Fruit, Stone Fruit, Raspberries, Tea, Vineyards.	See Weeds Controlled Table for Annual and Perennial Weeds and Brush and Woody Weeds	See Weeds Controlled tables	The product can be used as a shielded or directed spray, or using Wiper equipment. DO NOT apply near trees or vines less than 3 years old unless they are adequately protected from spray and spray drift. DO NOT allow spray or spray drift to contact bark, leaves, wounds or any other plant parts as severe injury may occur. Tea - Apply a maximum of 2.8 L/ha by a shielded spray or a directed off centre nozzle or 0.35 L/100 L by directed handgun or knapsack to avoid injury to the crop.
Pasture	See Weeds Controlled Table for Annual and Perennial Weeds and Brush and Woody Weeds	See Weeds Controlled tables	The product may be used by the following methods: * Spot application - To remove weeds by spot application within a pasture. This product is non-selective and may damage or kill any plant in the sprayed area. To prevent seedling re-establishment pasture improvement and/or retreatment may be necessary. * Boom application - This product may be used to suppress or kill existing pasture prior to reseeding or establishment of other crops. * Selective application - See Wiper equipment under General Instructions.
Peanuts, Cotton, Soybeans & Sugar Cane (USING SELECTIVE APPLICATION EQUIPMENT ONLY) QLD, NSW ONLY	See Weeds Controlled Table for Annual and Perennial Weeds and Brush and Woody Weeds	See Weeds Controlled tables	WIPER EQUIPMENT Apply to the weeds growing between the rows or to weeds growing at least 15 cm above the crop. DO NOT allow the herbicide to contact the crop or to drip from the applicator as serious crop injury may occur. SHIELDED SPRAYER (Cotton only) Apply to the weeds growing between the rows using a shielded sprayer. DO NOT apply unless the crop is at least 20 cm high. DO NOT allow herbicide or drift to contact crop.

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

WITHHOLDING PERIOD: NOT REQUIRED WHEN USED AS DIRECTED

GENERAL INSTRUCTIONS

Mode of Action

ProForce RAPID FIRE 510 SL Herbicide is a water soluble liquid herbicide. The product is non-selective and will control a wide range of emerged annual and perennial weeds. It provides no residual activity and is inactivated once it comes into contact with the soil. The product is absorbed by plant leaves and green stems and is then translocated throughout the plant to the root system.

The product inhibits a plant enzyme causing a breakdown in the metabolic pathway leading to death of the plant.

Visual effects of product efficacy are gradual wilting, yellowing leading to complete plant browning. For annual weeds effects are usually apparent in 3-7 days and for perennial weeds up to 14-21 days. The time taken for these effects to appear will vary depending on the speed of translocation which will be dependent on climate conditions such as temperature, moisture conditions etc. Best results are obtained if plants are sprayed when they are actively growing and not under any stress from such factors as disease, waterlogging, insect damage, drought stress etc.

Rain within 1 hour of application which causes run-off may require retreatment. Rainfastness is reduced if weeds are not actively growing, under stress or conditions if low light intensity/darkness. The addition of Wetter TX may improve rainfastness on winter annual

Plants which are covered in dust or which are wet with dew should not be treated.

Crop Establishment - Where the product is used to control weeds prior to the establishment of a new crop or pasture it is important that the crop or pasture not be sown until a suitable seed bed is present. Where a light cover of seedling annual weeds has been sprayed, it may be possible to sow after 1 hour of daylight after application. Where a large amount of dead weed matter or trash is present the seed bed needs to be adequately prepared before crop or pasture sowing.

MIXING AND APPLICATION

RAPID FIRE 510 SL may be applied by boom spray, air, knapsack, handgun or wiper application.

Boom Application

Spray volumes of 25-100 L water /ha are recommended with a fan nozzle at pressures of 240-280 kPa. Boom height must be set to ensure double overlap of spray patterns at the top of the weed canopy.

Wiper Equipment (eg ropewick, canvas, carpet or felt applicators)

May be used to apply the product in the situations as per the directions for use table. Weeds should be at least 15 cm above the crop and the wiper equipment should be operated at least 10 cm above the crop. Best results are obtained with lower speeds of application (DO NOT exceed 8 kilometers per hour) and where two applications are made in opposite directions ie double pass. Where herbicide does not contact foliage (due to different levels of foliage) results may not be satisfactory and retreatment may be required. DO NOT store a mixed solution for more than 2 days. Rate: 700 mL of product to 2 litres of water.

Aerial Application

Apply a minimum spray volume of 20 L/ha for Micronair and boom equipment. Use nozzles designed to deliver a MEDIUM-COARSE spray quality (ASAE S572) and the swath width 15 -17 metres. Aerial application is only recommended in pasture or fallow situations before establishment of a new crop or pasture or in pre-harvest sorghum. On sloping ground, the spraying height may vary, so it is recommended that the spray volume be increased to 30-80 L/ha using settings to produce a COARSE spray quality (ASAE S572).

Since the product is non-selective it is important to avoid spraying in conditions likely to cause drift, eg. wind over 8 kph, temperature inversion, still air and hot dry days.

DO NOT use in intensive horticultural areas

Use recommended rates specified in this label up to maximum limit of

Application in hot conditions: When the temperature reaches 25°C increase the water volume to at least 30 L/ha and increase medium droplet diameter to deliver a COARSE spray quality (ASAE S572) to compensate for additional evaporation of sprayed droplets. DO NOT use by air in temperatures above 30°C.

SURFACTANT

The addition of surfactant may improve weed control where water rates are high or product rates are low. Suggested surfactant rates are 200 mL/100 L of 1000 g/L non-ionic surfactant or 250-500 mL of 700 g/L surfactant. DO NOT add spraying oils, agricultural chemicals or any other material except as directed on the label.

MIXING

When the product is to be mixed with water it is important that clean water be used. Dirty water or hard water containing calcium salts may reduce the product's effectiveness. The following procedure for mixing should be followed:

- 1. Ensure spray tank is clean and that previous chemicals used are washed from the tank.
- 2. Half fill the tank with clean water, add the required amount of RAPID FIRE 510 SL.
- 3. Add the rest of the water
- 4. Add surfactant last.

COMPATIBILITY

The product may be mixed with a variety of products to enhance weed control, to broaden the spectrum of weeds and to add residual control. Refer to the "Directions for Use" Section for detailed information on the tank mix situations.

Additives: Liase assists in minimising antagonism when mixed with flowable Triazine herbicides.

Herbicides: Hi-Load* Atrazine 600, Atradex*, Atragranz* (see additives above - DO NOT apply the tank mix for control of Barnyard Grass or Liverseed Grass), Simazine Flowable, Simagranz*, Diurex, Dicamba, Ester 800, LV Ester 600, LV Ester 680, Express*, Garlon*,

chlorsulfuron, metsulfuron, Yield*, Stomp*, Triasulfuron, Polo* LVE. Thistlekillem*, Striker*, Trifluralin 480, Cobber* 475, Hammer*, Associate* Striker*: The addition of Striker at 75 mL/ha to recommended rates of this product prior to planting Wheat or Barley will improve knockdown and increase the speed at which treated weeds develop visible symptoms of phytotoxicity.

Insecticides: Chlorpyrifos, dimethoate, fenitrothion, Le-Mat*, metasystox, Sumithion*. Perfekthion EC 400*.



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APVMA Approval No.: 64362/122760

EQUIPMENT MAINTENANCE AND USAGE

RAPID FIRE 510 SL should ONLY be stored, mixed or applied in plastic or plastic lined, stainless steel, aluminium, copper, brass or fibreglass containers. The product and spray solutions react with galvanised steel and unlined steel tanks and containers to form hydrogen gas which may form a highly combustible gas mixture. This gas could cause an explosion if ignited by an open flame. All application equipment including tanks, nozzles, hoses, aircraft and aircraft landing gear, should be thoroughly washed after use to prevent corrosion.

RESISTANT WEEDS WARNING

ProForce RAPID FIRE 510 SL Herbicide is a GROUP M HERBICIDE member of the Glycine group of herbicide.

RAPID FIRE 510 SL has the inhibitor of EPSP synthase mode of action. For weed resistance management RAPID FIRE 510 SL is a Group M Herbicide. Some naturally occurring weed biotypes resistant to RAPID FIRE 510 SL and other Group M 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 RAPID FIRE 510 SL or any other Group M herbicide.

Since the occurrence of resistant weeds is difficult to detect prior to use. Indigo Specialty Products Pty Ltd accepts no liability for any losses that may result from the failure of RAPID FIRE 510 SL to control resistant

PRECAUTION

DO NOT store, mix or apply the product or spray solutions in unlined steel or galvanised containers as a highly flammable gas may form. Use stainless steel, brass, coppers, aluminium, plastic or plastic lined, fibreglass containers or spray tanks.

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

This product is non selective and may severely injury or kill desirable plants should the product contact the foliage, green stems or fruit of such

DO NOT spray under meteorological conditions or under spraying conditions which could be expected to cause spray to drift onto nearby susceptible plants, adjacent crops, crop lands or pasture. DO NOT use prior to transplanting tomato seedling.

PROTECTION OF LIVESTOCK

There is no withholding period for this product, but removal of stock may be necessary to achieve efficacy. It is recommended that stock be removed from the area to be treated and only allowed to return 1 day after treatment of annual weeds and 7 days after treatment of perennial weeds. Certain plants (eg Soursob, Variegated Thistle) may be naturally toxic to stock. Where known toxic plants are present, DO NOT allow stock to graze until complete browning of treated plants has

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT DO NOT contaminate dams rivers or streams with the chemical or used containers. When controlling weeds near water, refer to label directions to minimise the entry of spray into the water



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STORAGE AND DISPOSAL (20 L only)

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 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

STORAGE AND DISPOSAL (110 AND 1000 L only)

Store in the closed, original container in a cool, well ventilated area, DO NOT store for prolonged periods in direct sunlight. Empty containers fully into application equipment. Close all valves and return to point of supply for refill or storage.

SAFFTY DIRECTIONS

Product will irritate eves and skin. Avoid contact with eves and skin. When using controlled droplet applicator wear protective waterproof clothing and impervious footwear. When preparing product for use wear elbow length PVC gloves and face shield or goggles. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves, face shield or goggles and contaminated clothing.

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 131126. New Zealand 0800 764 766.

Additional information is listed in the safety data sheet (SDS). A safety data sheet for RAPID FIRE 510 SL is available from Indigo Specialty Products Ptv Ltd on request.

Seller warrants that the product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use. No warranty (other than non-excludable statutory warranties) of merchantability or fitness for a particular purpose, express or implied, extends to the use of the product contrary to label instructions, or under off-label permits not endorsed by Indigo Specialty Products Pty Ltd or under abnormal conditions. Indigo Specialty Products Pty Ltd accepts no liability for any loss or damage arising from incorrect storage, handling or use. * Other trademarks