

POISON

KEEP OUT OF REACH OF CHILDREN

READ SAFETY DIRECTIONS BEFORE OPENING OR USING



MCPA 500 Selective Herbicide

ACTIVE CONSTITUENT: 500 g/L MCPA PRESENT AS THE DIMETHYLAMINE
SALT

GROUP I HERBICIDE

For the control of certain weeds in cereal crops, rice, linseed, flax, sugar cane and non-crop areas as per the Directions for Use Table.

IMPORTANT: Read the leaflet thoroughly before using this product.

CONTENTS: Litres

4 FARMERS PTY. LTD.
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Batch No.:
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DIRECTIONS FOR USE:

RESTRAINTS

DO NOT spray if crop or weeds are stressed by dry or cold, excessively moist weather conditions.

DO NOT spray if crop is stressed by disease or if frosts are imminent.

DO NOT spray if rain is likely within 6 hours

DO NOT mix with hard or turbid water.

FIELD CROPS

SITUATION & CROP	WEEDS CONTROLLED	STATE	RATE/Ha	CRITICAL COMMENTS
Wheat Barley Oats Triticale	Refer Weed Table	Qld Only	700mL to 2.1 L	Apply from early tillering (4-5 fully emerged main stem leaves plus one or more tillers) until before the boot stage (visible swelling of the head at the top of the main stem).
		SA Only		Apply through the tillering stage after the crop plants have 5 leaves and before they commence jointing
		NSW, ACT Only		Apply 700mL rate after crop has reached 5 leaf stage and weeds marked. in weed table have 3-6 leaves Higher rates after when the first node can be felt at the base of a tiller and before swelling of the head can be felt In a tiller
		Vic Only	700mL to 1.5 L	Apply 700mL rate after crop has reached 2-3 leaf stage and weeds marked E in weed table have 2-4 leaves Higher rate after the crop plants have 5 leaves to fully tillered
		WA Only	900mL to 2.0 L	Apply to crop from 5 leaf to Flag leaf emergence
Wheat Barley Triticale Cereal Rye	Amsinckia (Yellow Burr), Capeweed, Charlock, Deadnettle, Doublegee(Spinyemex, Threecornered Jack), Mustard, Turnip weed, White Ironweed, (Corn Gromwell, Sheepweed), Wild Radish, Wild Turnip	NSW, ACT & Vic Only	500mL plus 500mL of 500g/L Flow Diuron	Apply by boom spray or aircraft when the crop is at the 3-5 leaf stage (NSW, ACT and SA only) and 5 leaf stage (Vic only) weeds must be in the 2-5 leaf stage DO NOT apply to undersown medic or Lucerne Do not use on Kamilaroi, Olympic or Shortim Wheat.
	Capeweed. Doublegee (Spiny emex, Threecornered Jack), Mustard, Turnip Weed, Wild Radish. Wild Turnip, Wards weed, Common Ice plant, Pimpernel	SA Only	350mL plus 500mL of 500g/ L Flow Diuron	DO NOT use on very light sandy soils
	Capeweed. Doublegee (Spiny emex, Threecornered Jack), Mustard, Turnip Weed, Wild Radish. Wild Turnip.	WA Only	400mL plus 350mL of 500g/L Flow Diuron	Apply to crop from 3 - 4 leaf stage (Z13 -14)
	500mL plus 500mL of 500g/L Flow Diuron		Apply to crop from 4 - 5 leaf stage (Z14 -15)	
				Apply by aircraft or boom with 20-100Uha water when most weeds have germinated and are in 2-5 leaf stage (Z12-15). Crop and weeds should be dry at time of application Some temporary yellowing of crop may occur after application Undersown sub-clovers may be slightly retarded. DO NOT apply to undersown medics

SITUATION & CROP	WEEDS CONTROLLED	STATE	RATE/Ha	CRITICAL COMMENTS
Wheat Barley Oats Triticale	Soldier Thistle	SA Only	700mL + 200mL of 300g/L Clopyralid	Apply to crop at tillering stage after the crop has 5 leaves before the crop commences jointing.
			1 L + 500mL of 300g/L Clopyralid.	Apply to rosettes and from 5 – 15 cm diameter when the crop is between the 5 leaf – tillering growth stages. It is essential that all the skeleton weed has germinated and a minimum of 5 cm diameter, which is not usually before August. This rate will provide control of skeleton weed until harvest and will substantially reduce seed numbers the following season.
Linseed	Refer Weed Table	NSW, ACT, Vic. SA	700mL to 1.1L	Apply when crop is 10-15cm tall. with at least 170 L/ha of water Do not spray alter buds appear Some wilting effect may be seen following application but crop usually recovers quickly. DO NOT apply by aircraft.
		Qld Only	700mL to 2.1L	
Sugar Cane	Blue Top, Chinese Burr. Flannel Weed, Gambia Pea, Bell Vine, Streaked Rattle Pod, Bindweed. Pink Convolvulus. Cupids Flower, Merremia Vine, Morning Glory	Qld Only	1.4 L	POST-EMERGENT. Apply as a directed inter-row spray. DO NOT exceed rates with Phenoxy sensitive varieties.
	Above plus fat hen Noogoora burr		2.1L	
	All of the above		10 L	
Flax	Refer Weed Table	Vic & Tas Only	490mL	Apply to crop when 8-20cm high

PASTURES, SEED CROPS AND TURF

SITUATION & CROP	WEEDS CONTROLLED	STATE	RATE/Ha	CRITICAL COMMENTS
Grass Pastures	Refer Weed Table	All States	700mL to 4L	Apply to established grass based pastures. Damage may occur to legumes if present See 'legume Tolerance' under General Instructions NOTE Capeweed, Paterson's Curse and Variegated Thistle may be poisonous to stock after spraying.
	Salvation Jane	SA only	1 L plus 400mL of 500g/L Flow Diuron	Use this mixture only if spraying is delayed until early winter. Rosettes should not exceed 20 cm.
	Soldier Thistle		700mL to 1L	Use low rate on seedlings with no more than two true leaves. Use 100L water for best results. If clover is present DO NOT exceed 600 mL.
	Seedling and established Horehound	NSW, ACT only	3L/ ha	Apply in autumn when horehound plants are at the seedling stage. If sub clover or medic plants are present, they will be damaged by this application.
Sub-clover Seed Crops	Refer Weed Table	Vic, SA only	700mL to 1.5L	Do not exceed rate specified Spray in autumn and early winter.
Grass seed crops	Refer Weed Table	NSW, ACT, Qld, WA, Tas & Vic Only	700mL to 4L	Apply to established grass seed crops.
Pastures- Spray/Graze Technique	Caltrop, Capeweed, Charlock, Mustards, Paterson's Curse, Shepherd's Purse, Saffron or Variegated Thistle, Turnip Weed, Wild Radish, Wild Turnip.	NSW, ACT, Vic Only	350mL to 1.4L	Spray actively growing 6-8 week old weeds. Introduce stock 7-10 days after spraying, preferably sheep as cattle are less effective. Use 5 times heavier than normal until weeds have been reduced, but before survival of desirable pasture species have been threatened. Lucerne and medics may be damaged and should be grazed shortly before grazing present See 'legume Tolerance' under General Instructions PRECAUTION: An Increased quantity of poisonous plants may be eaten by stock (using Spray/Graze, eg Caltrop, Capeweed, Paterson's Curse or Variegated Thistle, and deaths could result from causes such as nitrate poisoning. With Paterson's Curse, preferably graze stock soon destined for slaughter and avoid extended periods of grazing. Avoid grazing with young or breeding stock.
		Tas Only	700mL to 1L	
	Refer Weed Table	WA Only	925mL to 1.85L	
Turf	Refer Weed Table	All States	500mL or 5mL/100m ²	Newly laid: Delay until well established or at least 2 months old. Apply in high volumes to actively growing weeds. - present See 'legume Tolerance' under General Instructions Buffalo grass is more easily damaged than other grasses
			1.4L to 2.8L OR 14 mL to 28mL/100m ²	Established: Apply in high volumes to actively growing weeds Do not .mow for 2 days before application. Some transitory damage may occur in fine tooth grasses. See “Legume Tolerance”. Buffalo grass is more easily damaged than other grasses

SPOT SPRAYING

SITUATION & CROP	WEEDS CONTROLLED	STATE	RATE/Ha	CRITICAL COMMENTS
Knapsack Application	Refer Weed Table	All States	1/100 th of the rate / 10L water per 100m ²	Wet weed thoroughly.
High Volume sprayer			1/10 th of the rate / 150 L water / 1000 m ²	

NON CROP AREAS, FALLOW LAND, INDUSTRIAL & COMMERCIAL AREAS, RIGHTS OF WAY.

SITUATION & CROP	WEEDS CONTROLLED	STATE	RATE/Ha	CRITICAL COMMENTS
Non crop areas, Fallow land, Industrial & Commercial areas, rights of way.	Refer Weed Table	All States	Refer Weed Table	Apply at rates shown in weed table when weeds are present and no crop or pasture is involved.

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

WITHHOLDING PERIOD

Cereals, Pastures: DO NOT graze or cut for stock food for 7 days after application.

Harvest: No withholding period when used as directed.

WEED TABLE

The range of weeds controlled and degree of control is limited by the rate tolerated by the crop/pasture.

The rates listed below are for use where no crop or pasture is involved. The use at this rate in a crop or pasture situation other than by spot spraying may cause damage. This product should only be used in those states where indicated for the weeds listed.

APPLICATION RATE PER HECTARE FOR NON-CROP USE

WEEDS CONTROLLED	VIC	NSW, ACT	SA	QLD	WA	TAS	CRITICAL COMMENTS
Ball Mustard	-	-	1.7L	-	-	-	Apply at rosette stage
Bathurst Burr	2L	1-2L	2L	2L	2L	2L	Spray young seedling only
Black Bindweed		1.4-2L				1.4-2L	Apply at young stage prior to flowering
California Burr	-	1-2L	-	-	-	2.2 L	Spray young seedling only
Cape Tulip	-	-	-	-	2L	-	Spray when weed 10-15cm high
Capeweed	-	2.1L	2.1L	2.1L	.	2.1L	Apply at seedling stage
Carrot Weed	2L	-	-	2L	.	-	Apply at seedling stage
Charlock	700 mL	1 L.	700mL	700mL	.	1.2-2L	Spray up to rosette stage
Cutleaf Mignonette	-	-	2.1 L	-	.	-	Apply at young rosette stage
Dandelion	2L	2L	2L	2L	2L	2L	Apply at young rosette stage
Deadnettle		2.1L		2.1L			Moderately susceptible. Apply at seedling stage
Docks	1.5L	-	2.1 L	-	.	2.1 L	Apply at rosette stage and before flower heads emerge. Only the top growth of old established plants will be affected.
Fat Hen	2L	1-2L	.	2L	.	2L	Spray up to rosette stage
Fennel	2.7L	2.7L	2.7L	2.7L	.	2.7L	Apply at young stage
Field Bindweed	2L	-	2L	2L	2L	2L	Apply at bud stage, repeating over several seasons

WEEDS CONTROLLED	VIC	NSW, ACT	SA	QLD	WA	TAS	CRITICAL COMMENTS
Flatweed or Catsear	-	-	-	-	1.4L	2.2L	Apply when weeds are 10-15cm high
Fumitory (Red)	1.4L	-	1.4L	1.4L	-	-	Apply at young stage prior to flowering
Hoary Cress	4.5L	-	2.1 L	4.5L	-	4.5L	Apply before flowering repeating over several seasons
Horehound	-	-	2.1L	-	-	-	Apply at rosette stage.
Hedge Mustard	1.1L.	-	700mL	700mL	1.25L	700mL	Apply at rosette stage
Hexham Scent / Melilotus	1.5L	1-2L	1.4L	1.4L	-		Apply at young seedling stage
Lesser Swinecress						2.2L	Apply at young stage
Lincoln Weed.	-	-	700mL	-	-		Apply at rosette stage
London Rocket	-	-	-	-	125L	-	Spray when weed 10-15cm
Lupins	.	700mL-1.5L	-	-	125L	-	Spray up to 10cm high
Mintweed	2L	2L		2L			Spray young seedling only
Mustards	1.1L	1L	-	-	1.25L	1.1L.	Spray up to rosette stage
Noogoora Burr	2L	1-2L	2L	2L	2L	-	Spray young seedlings only
Opium Poppy						2.2L	Apply at young stage
Patersons Curse	-	1-1.5L	-	4L	-	.	Apply at rosette stage
Plantains	-	2L	-	2L	-	2L	Apply at young stage
Rapeseed	-	1.15L	-	-	-	-	Spray up to rosette stage
Rough Poppy	-	700mL-1.5L	-	-	-	-	Spray up to rosette stage
Safflower	-	700mL-1L	-	-	-	-	Spray up to rosette stage
Shepherds Purse						2.2L	Apply at rosette stage
Skeleton Weed	1.5-2L	-					Spray rosettes before aerial growth commences
Sorrel	-	-	2.1L	-	-		Apply to rosette stage
Stinkwort	2L	1-1.5L	2L	-	2L	-	Apply when weeds are 10-15cm high
Sunflower (seedlings)	-	1-1.5L	-	.	-	-	Spray up to rosette stage
Thistles-							
Artichoke	1.6L	.	2.1L	2L	700mL	-	Apply at rosette stage
Nodding	-	25L	-	-	-		Spray early rosettes Repeat spray required in following spring or autumn
Saffron	1.5-2.5L	1-2L	1.4-2.5L	1.4-2.5L	1.5-2.5L	1.5-2.5L	Spray up to rosette stage
Scotch or Cotton	2.2L	-	700mL-1.4L	2.5L	-	2.2L	Apply at seedling stage
Slender	3L	1-2L	1 L	-	3L	1-3L	Spray young seedlings only
Spear	-	1.5.2L	-	-	-	1-22L	Apply at rosette stage
Star.			1-1.4L	-			Apply at seedling stage Use higher rates for larger weeds
Variigated	1.5L	1-2.7L	700mL-1.4L	1.5L	1.5L	1.5L	Spray young seedlings only Use 2L/Ha (SA) for Well developed weeds
Turnip Weed	1.1L	1 L.	-	700mL	-		Spray up to rosette stage
Wild Artichoke			2.1L				Apply at rosette stage
Wild Radish	1.4L	1 L.	1.4L	700mL-1.1 L	1.2L	2L	Spray up to rosette stage
Wild Turnip	11L.	1L.	700mL	700mL-1.1L	900mL	2L	Spray up to rosette stage

GENERAL INSTRUCTIONS

Before opening, Carefully read Safety directions, First Aid Instructions, Directions for Use, Protection Of Wildlife, Fish, Crustacea And Environment and other statements.

RESISTANT WEEDS WARNING

- 4Farmers MCPA 500 is a member of the PHENOXY group of herbicides. 4Farmers MCPA 500 has the disruptors of plant cell growth mode of action. For weed resistance management 4Farmers MCPA 500 is a group "I" herbicide.
- Some naturally occurring weed biotypes resistant to 4Farmers MCPA 500 and the disruptors of plant cell growth 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 4Farmers MCPA 500 or the disruptors of plant cell growth herbicides.
- Since the occurrence of resistant weeds is difficult to detect prior to use, 4Farmers accepts no liability for any losses that may result from the failure of 4Farmers MCPA 500 to control resistant weeds.
- **DO NOT** however assume resistance without first reviewing the method of application, timing, water quality and weather conditions.

MODE OF ACTION

MCPA 500 is a member of the PHENOXY group of herbicides. The formulated product is absorbed through the leaves and roots of susceptible plants, in a ratio dependant upon both the plant and soil moisture content. Translocated throughout the plant, MCPA affects the balance between the plant's synthesis of plant sugars and it's ability to use them. The resultant rapid, but disorganized cell growth gives the twisted effect seen in MCPA affected weeds

TIMING

Weeds are more susceptible when growing under favorable conditions and in general; annuals should be sprayed when young, and perennial just prior to flowering. Extremes of cold or drought retard growth and gives a less complete kill. Best conditions for spraying occur in moist soil, fine weather, with no rain for 6 hours.

LEGUME TOLERANCE

The use 4Farmers MCPA 500 is preferred to 4Farmers 2,4-D or 2,4-D Ester in situations where legumes are undersown in the crop. Observe tolerance for particular legumes in the table below: The Relative tolerance for legumes is

Lucerne	Not tolerant	Medics	Low tolerance
Sub Clover	Moderate tolerance	White Clover	High tolerance
Strawberry Clover	High tolerance		

APPLICATION AND MIXING INFORMATION

The product mixes readily with water. Half fill the spray tank with water and add the required amount of product. Agitate thoroughly before adding the remainder of water.

BOOM SPRAYING Calibrate the sprayer before use to ensure the correct application rate is obtained. Use 30 - 120 Litres water per Hectare. Thoroughly clean spray equipment after use with 4Farmers Pty Boom & Spray cleaner.

CEREALS AND SUGAR CANE: Apply 50-200L (WA 50-100L) water per hectare. Use the higher volume where weed infestation is heavy or the crop cover is dense.

PEAS, ANNUAL MEDICS (NOT WA), SUBTERRANEAN CLOVER: Apply 200-300 (WA 50L - 100L) of water per hectare-

LINSEED: Apply a minimum of 170L of water per hectare.

TURF: Apply a minimum of 500L water per hectare.

AERIAL APPLICATION

CEREALS AND SUGAR CANE: Apply 20-30L of water per hectare.

QLD ONLY: Apply a minimum of 45L water per hectare

HIGH VOLUME SPRAYING:

Use 200mL per 100L water for easy to kill weeds such as Wild Turnip, Mustards and Wild Radish. Use 400mL per 100L of water for more difficult to control weeds eg Docks and Hoary Cress.

SPRAY GRAZE WARNING

Some weeds can be controlled by 'spray grazing' a combination of herbicide treatment followed by heavy grazing 7 -10 days later. Sprayed weeds become more palatable to stock and a higher intake of some weeds after spraying may cause stock deaths and other problems. Such weeds are Caltrop, Capeweed, Cape Tulip,

Paterson's Curse (Salvation Jane) and Variegated thistle. With Paterson's Curse, preferably graze stock soon to be slaughtered and avoid extended periods of grazing.

Avoid grazing with young or breeding stock. Do not graze horses or pigs on Paterson's Curse.

Compatibility

4Farmers MCPA 500 Herbicide is compatible with 4Farmers Metsulfuron, 4Farmers Chlorsulfuron, Dicamba, Bromoxynil, Terbutryn, Clopyralid, Triclopyr - Picloram mixes, Methabenzthiazuron, Diuron SC Herbicide. The effectiveness of Dimethoate, Imidan, Omethoate, and Metasystox may be reduced if tank mixed with this product. When tank-mixing add the required amount of the compatible product when the tank is nearly full and maintain agitation. If allowed to stand overnight, thoroughly re-agitate before spraying.

PROTECTION OF CROPS, NATIVE AND OTHER NON- TARGET PLANTS

Drift Warning: DO NOT spray under meteorological conditions or from spraying equipment, that may cause spray to drift onto nearby susceptible plants/ crops, cropping lands or pastures.

Avoid spray drift onto susceptible crops such as cotton, tobacco, tomatoes, vines, Lupins, fruit trees and ornamentals.

PROTECTION OF WILDLIFE, FISH, CRUSTACEA AND ENVIRONMENT

Dangerous to fish.

DO NOT contaminate streams, rivers or waterways with the chemical or used containers.

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 or preferably pressure rinse containers before disposal. Add rinsings to the spray tank. Do not dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point.

If not recycling break, crush, or puncture and bury containers at a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, vegetation and tree roots. Empty containers and product should not be burnt.

SAFETY DIRECTIONS

Harmful if swallowed. Attacks eyes. Will irritate the skin. When opening the container and preparing spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist and a washable hat and elbow length PVC gloves and goggles. If product on skin, immediately wash area with soap and water. If product in eyes washout immediately with water.

After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use wash gloves, goggles and contaminated clothing.

FIRST AID

If poisoning occurs contact a doctor or Poisons Information Centre (Tel. 131 126). If swallowed, and if more than 15 minutes from a hospital, induce vomiting, preferably using Ipecac Syrup APF. Additional information is listed in the Material Safety Data Sheet.

TERMS OF SALE

4Farmers Pty Ltd will not be held liable for any loss, injury or damage, indirect or consequential, arising from the sale, supply, use or application of this product. The product is not to be used for any purpose or in any way contrary to label instructions.

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