

CAUTION

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

Kenso Agcare

MCPA 250

Selective Herbicide

ACTIVE CONSTITUENT: 250 g/L MCPA present as the sodium salt

GROUP I HERBICIDE

For the control of broadleaf weeds in situations listed in the Directions for Use table

IMPORTANT: READ THE ATTACHED LEAFLET BEFORE USE

NRA Approval No. : 56933 / 0603

Contents: 5L, 20L, 110L, 200L, 1000L



Kenso Corporation (M) Sdn Bhd
15a/243 Bradman Street
Acacia Ridge, Qld 4110
Phone 07 3711 5900

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infopest@dpi.qld.gov.au

N.R.A.	
APPROVED LABEL (TEXT)	
Label No:	56933 / 0603
Date:	16.07.03
Signature:	

STORAGE AND DISPOSAL

Store in the closed, original container in a cool, well-ventilated area away from children, animals, food, feedstuffs, seed and fertilisers. Do not store for prolonged periods in direct sunlight. Triple or preferably pressure 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 bury empty containers in a local authority landfill. If no landfill is available, bury the container below 500 mm in a disposal pit specifically marked and set up for this purpose, clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

Refillable containers (110L) : Store the original sealed drum in a cool, well ventilated area. Do not store for prolonged periods in direct sunlight. Do not tamper with the Micro Matic valve or the security seal. Do not contaminate the drum with water or any other foreign matter.

After each use of the product, please ensure the Micro Matic coupler, delivery system and hoses are disconnected, triple rinsed with clean water and drained accordingly. When the contents of the drum have been used, please return the empty drum to the point of purchase. The drum remains the property of Kenso Agcare.

Refillable containers (1000L) : Empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage.

SAFETY DIRECTIONS

Harmful if swallowed. Attacks eyes. Will irritate the skin. When opening the container, preparing spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves and goggles. If product on skin, immediately wash area with soap and water. If product or spray in eyes, wash it out immediately with water. After use and before eating, drinking or smoking, wash hands, arms, and face thoroughly with soap and water. After each day's use wash gloves, goggles and contaminated clothing.

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone 131 126.

MATERIAL SAFETY DATA SHEET

Additional information is listed in the Material Safety Data Sheet.

CONDITIONS OF SALE

"Kenso Corporation (M) Sdn. Bhd." ('Kenso') 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 Kenso'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 Kenso has any authority to add to or alter these conditions.

In a Transport Emergency Dial 000 Police or Fire Brigade

Batch No:

Date of manufacture:

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DIRECTIONS FOR USE LEAFLET

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DIRECTIONS FOR USE

RESTRAINTS: DO NOT apply if weeds are under stress from drought, low soil fertility, frost or water logging.
DO NOT spray if rain is likely within 6 hours.

FIELD CROPS

Situation & Crop	Weeds	State	Rate/ha	Critical Comments
Wheat, Barley and Oats	Refer to Weed Table	Vic only	910mL-3L	Tillered to boot stage: 910mL may be applied as an early application when crop is at the 2-3 leaf stage and when weeds have 2-4 leaves. The legume tolerance is also 910mL at this time of application.
		SA, Qld, NSW only	900mL-4L	Apply through the tillering stage after the crop plants have 5 leaves and before they commence jointing.
		Tas only	2L-4.5L	
	Triticale – Coorong Rye SA Commercial	NSW only	900mL-4L	Apply from early tillering to jointing stage.
		SA only	1L-4L	Apply not earlier than first tillering or later than first jointing of crops.
	Corn & maize	NSW only	850mL-4L	Spray when crop is 10-60cm high. Do not spray crowns. Use drop nozzles.
		Tas only	2L-4.5L	Apply when crop is 15-30cm high. The crop must not be showing any signs of stress when application is made. Some leaf twisting may occur following application, crop should quickly recover.
		Qld, SA, Vic only	1L-3L	Apply when crop is 10-20cm tall. Do not cultivate soon after spray as crop may be brittle.
		NSW only	850mL-2.1L	Apply when crop is taller than 8cm and well before budding.
	Linseed	Qld, Vic, SA only	1L-2.1L	Apply when crop is 10-15cm high. Some wilting will often be seen following application. The crop usually recovers within a few days. Spray applied in not less than 350 litres water/ha.
		NSW, Qld, Vic, Tas & SA only	900mL-1.4L	Apply when crop is 10-15cm high. Do not apply if flowering has begun. MCPA may delay maturity up to two weeks. Do not use if crop is under any sort of stress. (See further details under General Instructions).
Peas	Charlock, Mustards, Wild Turnip (Seedlings)	WA only	1L	
		NSW only	1.4-2.7L	Apply by aircraft early/mid tillering stage of rice but not later than particle initiation. Use 1.4L/ha at 35 days after aerial sowing (approximately 2 tillers per rice plant). The crop should be sprayed before flowering of the weeds.
Rice	Dirty Dora, Star Fruit, Alisma	NSW only	1.4-2.7L	WATER MANAGEMENT: Before herbicide application lower water level in the bays to expose at least two-thirds of the weed growth for direct contact with MCPA 250 S.. Weeds covered by water will not be controlled. Raise water depth to normal levels 24 hours following spraying.
		NSW only	850mL-2.8L	Apply when crop is 25-40cm tall. Use drop nozzles. Do not cultivate soon after spraying as crop may be brittle. Use lower rates on grain sorghum.
		Qld only	1.4-2.1L	
		SA, Vic only	1L-3L	
Sorghum	Refer Weed Table	NSW only	850mL-2.8L	
		Qld only	1.4-2.1L	
		SA, Vic only	1L-3L	

Situation & Crop	Weeds	State	Rate	Critical Comments
Sugar Cane	Blue Top, Chinese Burr, Flannel Weed, Cambia Pea, Bell Vine, Streaked Rattle Pod, Bindweed, Pink Convolvulus, Cupids Flower, Merremia Vine, Morning Glory	Qld only	2.8L	POST-EMERGENT: Apply as directed inter-row spray.
	As above plus Fat Hen and Noogoora Burr		4.2L	
	All of the above		20L	PRE-EMERGENT: Apply over the row in a 45cm band within 24 hours of planting.
Annual Medic seed crops	Refer Weed Table	Vic only	1.4L-2L	Do not exceed rate specified. Spray in Autumn or Spring when crop is well established.
		SA only	700mL-1.4L	
		Vic only	1.4-3L	
		SA only	1.4L-2.1L	
Sub-clover		NSW, Qld, Vic, SA, Tas	2.8L	Apply when crop is well established. Some temporary damage may occur. Check legume tolerance list under "General Instructions".
Clover Leys			1.4L-8.5L	Apply to mature grasses. Observe tolerance chart for legumes should any be present.
Grass Pastures			700mL-2.8L	Spray actively growing 6-8 weeks old weeds. Introduce stock 7-10 days after spraying (sheep are more effective than cattle) using a stocking rate at least 5 times heavier than normal. When weeds have been reduced, but before desirable plant species have been destroyed, return to normal stocking rate. Lucerne and medics may be damaged and should be grazed short before spraying. Note legume tolerance under "General Instructions".
Pastures - Spray/Graze Technique			1L	
Turf	Refer to Weed Table	NSW, Qld, SA, Vic, Tas only	2.8L-5.5L or 30-60mL per 100 square metres	Newly laid - Delay until well established. Established - Do not mow for 2 days before treatment. Note that transitory to fine turf and strawberry clover is likely. Check legume tolerance under "General Instructions".

WITHHOLDING PERIOD: CEREALS AND PASTURE – DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 7 DAYS AFTER APPLICATION.

SPOT SPRAYING

Situation & Crop	Weeds	Rate 15L Knapsack	Critical Comments
All situations	Refer to Weed Table	350 mL/15L water	Apply through knapsack. Thorough coverage is essential. 15L of solution is sufficient to cover 150m ² .

**NON CROP AREAS, FALLOW LAND, INDUSTRIAL & COMMERCIAL AREAS, RIGHTS-OF-WAY
(NSW, Qld, Vic, Tas, SA only)**

Situation & Crop	Weeds	Rate	Critical Comments
Non Crop Areas, Fallow Land, Commercial Areas, Rights of Way	Refer to Weed Table	Refer to Weed Table	Apply at rates shown in Weed Table when weeds only 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.

WEED TABLE:

WEEDS CONTROLLED	Application Rate per Hectare					Critical Comments	
	Crops						
	Qld	NSW	Vic	Tas	SA		
Amaranth	-	-	-	4.5L	-	-	Seedlings, young plants only.
Annual Nettles	-	-	-	-	-	4L	Young stages more susceptible. Regrowth is likely to occur.
Arthichoke Thistle	-	-	1.5L	-	-	8.5L	High volume, repeat following year. Add wetting agent.
Bathurst Burr	-	-	3L	-	-	4L	Earliest possible, moderate susceptibility.
Capeweed	-	2.1-3.4L	-	4.5L	3.5L	4.4L	
Californian Thistle	-	4L	-	4.5L	-	-	
Cats Ear	-	-	3L	4.5L	-	4L	Weeds become more resistant with age.
Charlock	-	900mL (E) 1.5L (L)	920mL (E) 1.5L (L)	2-4.5L	1.4 L	1L	Spray seedling or early rosette stage.
Climbing Buckwheat	-	-	-	2.8L	-	-	Suppression only.
Clovers	-	-	-	-	-	3.1L	
Cotula (Carrot Weed)	4L	4L	4L	4L	4L	4L	
Dandelion	4L	4L	4L	4L	4L	4.4L	
Dense Flower Fumitory	-	2.8L	-	-	-	-	
Dirty Dora	-	2.8L	-	-	-	-	
Docks	-	-	3L	4.5L	-	4-7L	Spray seedling. Repeat sprays required for older plants.
Fat Hen	-	-	3L	2-4.5L	-	4L	Spray young – later stages are harder to control.
Fennel	-	-	-	-	-	5.5L	
Field Bindweed	2.4-4.4L	4L	4L	4L	4L	4.4L	Repeat spray needed for established plants.
Field Cress	-	-	-	4.5L	-	-	

WEEDS CONTROLLED	Application Rate per Hectare					Critical Comments	
	Crops						
	Qld	NSW	Vic	Tas	SA	NSW, Qld, SA, Tas, Vic	
Fumitory	-	2.9L	-	-	-	3.1L	
Hawkbit	-	-	-	4.5L	-	-	
Hedge Mustard	-	-	-	4.5L	-	-	
Hexham Scent	-	-	3L	-	2.8L	2.8L	
Hoary Cress	8L	8L	8L	-	8L	8.5L	Spray just before flowering.
Lesser Swinecress	-	-	-	2L-4.5L	-	-	Lower rate for seedlings. Higher rate for rosette stage.
Lincoln Weed	-	-	-	-	1L	2.8L	Spray seedling or early rosette stage.
Melilotus, Hexham Scent	-	-	3L (L)	-	2.8L	2.8L	
Mintweed	4L	4L	4L	-	4L	4L	
Mustards	2.1L	900mL- 1.4L	910mL (E)	2L-4.5L	1.4L	1.4L	Apply early rosette stage.
Narrow Leaf Plantain	-	-	-	4.5L	-	-	
Nodding Thistle	-	-	-	-	-	4.4L	
Noogoora Burr	-	-	-	-	-	4L	Spray young. Use spot spray rate for larger plants.
Plantains	4L	4L	4L	4.5L	4L	-	
Radish	-	-	-	-	-	930mL- 1.5L	
Ragwort	-	-	-	-	-	4L	
Rough Poppy	-	-	-	4.5L	-	-	
Saffron Thistle	3.5L	2.7-4L	3L (L)	-	2.8L	2.8L	Early rosette, spray before leaves become spiny.
Skeleton Weed	-	2.8- 3.5L	-	-	-	-	
Sedges	4.2L	-	-	-	-	-	
Shepherds Purse	-	-	-	4.5L	-	-	
Sheep Thistle	-	-	-	-	-	2.6L	
Slender Thistle	-	-	-	4.5L	-	5.5L	Apply at rosette stage.
Sow Thistle	-	-	-	4.5L	-	-	
Spear, Scotch, Black Thistle	-	-	3L	2L-4.5L	-	4L	Apply at early rosette following Autumn rains.
Stagger Weed	-	-	-	-	-	4.4L (not Qld)	
Star Fruit	-	2.8L	-	-	-	-	
Stinkwort	-	-	-	-	-	4L	Spray very young, before 10-15cm high. Add wetting agent.
Stocksbill	-	-	-	-	-	2.1-3.4L	Spray weeds as early as possible after opening rains. Weeds become more resistant with age.

WEEDS CONTROLLED	Application Rate per Hectare						Critical Comments
	Crops					Pastures	
	Qld	NSW	Vic	Tas	SA	NSW, Qld, SA, Tas, Vic	
Turnip Weed	1.4L	900mL-1.4L	-	-	2.1L	-	
Variegated Thistle	2.1L	2.1L-2.8L	2.8 L	2L-4.5L	-	2.1L-2.8L	Spray at pre-cabbage stage.
Water Plantain	-	2.8L	-	-	-	-	
Wild Radish	2L	900mL-2.5L	2.2L	2-4.5L	2.8L	900mL-1.5L	
Wild Sage	-	-	3L	-	-	2.8L	Spray seedlings - add wetting agent at 0.2% (not on cereals).
Wild Turnip	-	900mL-1.7L	910mL (E)	2-4.5L	1.4L	1L	Spray seedlings or early rosette stage.

NOTE: For wheat, Barley and Oats :

L= Late application when crop is at tillered to boot stage.

E= Early application when crop has 2-3 leaves and when weeds have 2-4 leaves.

GENERAL INSTRUCTIONS

Before opening carefully read Safety Directions, First Aid Instructions, Directions for Use, and Protection of Livestock, Wildlife, Fish, Environment and other statements.

Kenso Agcare MCPA 250 Selective Herbicide acts by penetrating the cuticle of the plant with translocation to the regions of growth and reproduction where foods are being utilised. These are regions of active metabolism. It is here that the herbicide molecules accumulate to toxic levels resulting in plant death. Results can be seen within a few days for susceptible weeds but may not be visible for several weeks in harder to control weeds.

Note: MCPA may be washed off leaves if rain follows within six hours of application.
MCPA is readily leached from soils and is readily broken down by soil microbes.

RESISTANT WEEDS WARNING

GROUP HERBICIDE

Kenso Agcare MCPA 250 Selective Herbicide ('MCPA 250') is a member of the phenoxy group of herbicides. MCPA 250 S. has the disruptors of plant cell growth mode of action. For weed resistance management MCPA 250 is a Group I Herbicide.

Some naturally occurring weed biotypes resistant to MCPA 250 and other 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 MCPA 250 or other disruptors of plant cell growth herbicides.

Since the occurrence of resistant weeds is difficult to detect prior to use, Kenso Corporation (M) Sdn Bhd accepts no liability for any losses that may result from the failure of MCPA 250 to control resistant weeds.

TIMING

Weeds are more susceptible when actively growing under favourable conditions and in general, annuals should be sprayed when young and perennials just prior to flowering. Extremes of cold or drought retard growth and give a less complete kill. Best conditions for spraying are found when the soil is moist and weather fine and rain unlikely within 6 hours of application.

Refer to 'Critical Comments' for more appropriate crop stages of application. DO NOT spray outside these stages as crop damage may result. DO NOT spray in high winds.

DO NOT spray crops outside the recommended growth stages as damage may result.

Legume Tolerance

The use of MCPA is preferred to 2,4-D Amine or 2,4-D Ester in situations where legumes are undersown in the crop. Observe tolerance for particular legumes in the following table.

The relative tolerance of legumes is:

Lucerne	not tolerant
Medics	low tolerance
Sub-Clover	moderate tolerance
White Clover	moderate tolerance
Strawberry Clover	high tolerance

DO NOT spray cereal crops undersown with lucerne as damage may result.

DO NOT use on peas if crops are under stress from drought, water or disease. MCPA 250 usually causes twisting and reduction in plant growth 2-3 weeks after spraying. Peas will recover and grow normally if not subject of stress when sprayed or during the post application recovery period.

APPLICATION AND MIXING INFORMATION

Kenso Agcare MCPA 250 S. mixes readily with water. Half fill the spray tank with clean water and add the required amount of product. Agitate thoroughly before adding the remainder of water.

BOOM SPRAYING: Use 120 - 240 litres water per hectare (Note: use a minimum of 350 litres per hectare for linseed).
AERIAL SPRAYING: Use 40 - 60 litres water per hectare.

Equipment used for this chemical should not be used for the application of other material to sensitive plants, unless it has been well washed out with a 2% solution of cloudy ammonia followed by several clear water rinses; or with a tank and equipment cleaner.

COMPATIBILITY/TANK MIXES

This product can be tank mixed with Ken-Met 600 WDG, dicamba, bromoxynil, Kenso Agcare Ken-Chlor 750 WDG, terbutryn and Kenso Agcare Diuron 500. The effectiveness of Saboteur, Imidan, omethoate and Demeton-S-methyl may be reduced if mixed with Kenso Agcare MCPA 250. When tank mixing add the required amount of compatible product, except Kenso Agcare Diuron 500, when the spray tank is nearly full and while continuously agitating. If left overnight, agitate thoroughly before spraying. When tank mixing with Kenso Agcare Diuron 500; add the flowable formulation to the spray tank prior to the addition of Kenso Agcare MCPA 250 Selective Herbicide while continuously agitating. If left overnight, agitate thoroughly before spraying.

PROTECTION OF LIVESTOCK, WILDLIFE, FISH CRUSTACEANS AND ENVIRONMENT

DO NOT contaminate streams, rivers or waterways with the chemical or used container. DO NOT use the container for any other purpose. Wash out container and dispose of it in an approved manner. Keep container tightly sealed and do not store with seed or fertilisers.

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

DO NOT use on or in situations where damage to susceptible crops such as cotton, vines, tomatoes, vegetables, fruit trees, lucerne, legume crops and pastures, oilseed crops or other susceptible crops and trees (eg. Kurrajong, Belahs) may occur from direct application, spray drift or vapours.

DO NOT apply under weather conditions, or from spraying equipment that may cause spray drift onto nearby susceptible plants/crops, cropping lands or pastures.

STORAGE AND DISPOSAL

Store in the closed, original container in a cool, well-ventilated area away from children, animals, food, feedstuffs, seed and fertilisers. Do not store for prolonged periods in direct sunlight. Triple or preferably pressure 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 bury empty containers in a local authority landfill. If no landfill is available, bury the container below 500 mm in a disposal pit specifically marked and set up for this purpose, clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

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FIRST AID

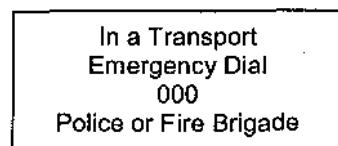
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