

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

*KENSO AGCARE*

# **KEN-STAR 450 HERBICIDE**

ACTIVE CONSTITUENT: 450 g/L 2, 4-D  
present as the isopropylamine salt

**GROUP II HERBICIDE**

For the control of emerged broadleaf weeds prior to sowing crops and pastures in conservation tillage situations and for selective weed control in crops and situations detailed in the Direction for Use.  
**This is a PHENOXY HERBICIDE that can cause severe damage to susceptible crops such as cotton, grapes, tomatoes, oilseed crops and ornamentals.**



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**IMPORTANT: READ THE ATTACHED LEAFLET BEFORE USE**

**CONTENTS: 20 Litres APVMA Approval No.: 61893/ 20L/ 0310**

# KENSO AGCARE KEN-STAR 450 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 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 containers 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:** Empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage.

**110 L Mini Bulk Returnable Container (110L only):** 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 foreign matter. After each use of the product, please ensure that 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 Corporation (M) Sdn Bhd.

## SMALL SPILL MANAGEMENT

Sweep up material and contain in a refuse vessel for disposal in the same manner as for containers (see Storage and Disposal section).

## SAFETY DIRECTIONS

Poisonous if swallowed. Avoid contact with eyes and skin. DO NOT inhale spray mist. When preparing spray, wear PVC or rubber apron, elbow length PVC gloves and face shield. When using the prepared spray, wear face shield. If product on skin, immediately wash area with soap and 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, face shield and contaminated clothing.

## FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131126).

## 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 in 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 or alter these conditions.

In a Transport Emergency  
Dial **000**  
Police or Fire Brigade

Product Of Malaysia



Batch No.:

Date of Manufacture:

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



**Ken-Star 450**

Herbicide

**ACTIVE CONSTITUTE: 450 g/L 2,4-D present as the isopropylamine salt**

**GROUP 1 HERBICIDE**

For the control of emerged broadleaf weeds prior to sowing crops and pastures in conservation tillage situations and for selective weed control in crops and situations detailed in the Directions for Use.

This is a **PHENOXY HERBICIDE** that can cause severe damage to susceptible crops such as cotton, grapes, tomatoes, oilseed crops and ornamentals.

**IMPORTANT: READ THIS LEAFLET BEFORE USE**

APVMA Approval No: 61893/0310

**Kenso Corporation (M) Sdn Bhd**  
3C / 59 Oxford Street  
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Phone (07) 3217 9788

**DIRECTIONS FOR USE:**

**RESTRAINTS:**  
DO NOT spray if rain seems likely within 6 hours or if strong winds prevail.  
DO NOT apply if crop or weeds are stressed due to dry or excessively moist conditions.

**1. CONSERVATION TILLAGE**

CROP/SITUATION	WEEDS CONTROLLED	STATE	RATE	CRITICAL COMMENTS
Preparatory spray for Fallows and Seedbeds or prior to sowing the following Crops: Balansa Clover, Barley, Chickpeas, Cotton, Faba Beans, Field Peas, Lentils, Linseed, Lucerne, Lupins, Narbon Beans, Navybeans, Oats, Perennial Ryegrass, Persian Clover, Phalaris, Repessed, Rice, Safflower, Sorghum, Soybean, Subterranean Clover, Sunflower, Triticale, Vetch, Wheat, White Clover	Fumitory (White), Ball Mustard, Indian Hedge Mustard, Common Sowthistle, Turnip Weed, Wild Turnip, Wild Radish Seedlings of: Australian Bindweed, Bellvine, Caltrop, New Zealand Spinach, Raspweed Ageratum (Blue Top), Dock, Volunteer Lupins, Volunteer Peas, Volunteer Sunflowers, Charlock, Fumitory (Red), Medic, Paterson's Curse, Prickly Lettuce (Wild Lettuce), Saffron Thistle, Spear Thistle, Variegated Thistle Bathurst Burr, Blackberry Nighthshade, Callifarnian Burr, Roundhead Seedlings, Lincoln Weed Seedlings, Marshmallow Seedlings, Sorrel Seedlings, Thornapple, Volunteer Vetch, Volunteer Safflower, Common Ice-Plant, Storksbill/Erodium Seedlings, Joyleaf, Speedwell, Melilotus, Shepherd's Purse, Skeleton Weed (Suppression only), Ward's Weed, Wireweed Seedlings (Hogweed), White Clover, Sub-Clover Amaranth, Apple of Peru, Mexican Poppy, Annual Ground Cherry, Balders Kalmia, Fat Hen, Malons, Nattive Rossella, Noongora Burr, Potato Weed, Cow Vine, Yellow Vine, Rapeseed	All states NSW, Qld only All states NSW, Qld only	440mL/ha – 800mL/ha + Ken-Up® 450 CT and Surfactant at recommended label rates 600mL/ha – 800mL/ha + Ken-Up® 450 CT and Surfactant at recommended label rates 800mL/ha – 1.2L/ha + Ken-Up® 450 CT and Surfactant at recommended label rates 1.2L/ha – 1.8L/ha + Ken-Up® 450 CT and Surfactant at recommended label rates	RATE SELECTION: Use the lower rate for seedling broadleaf weeds and increase to the higher rate for broadleaf weeds more than 10 cm diameter/high. Always add Ken-Up® 450 CT at recommended label rates. At the time of application all weeds must be actively growing and not under stress from low moisture, frost, cold, disease or water-logging. If grazing has occurred allow regrowth to 6-8 cm before spraying and use higher rate. Always add either a non-ionic surfactant (eg. Activator) or the acidifying surfactant LI-700 or Bonus in accordance with label directions on the Ken-Up® 450 CT product. Use LI-700 with Ken-Up® 450 CT if insecticides will be included in the tank mixture or if faster brownout of weeds is required. Apply to actively growing young weeds before sowing. Observe plant back periods given in the table on this leaflet. Apply to actively growing plants in autumn. Do not sow pasture seed for at least 30 days after application.
PASTURES: Conservation Tillage – Direct Drilling, Surface Sowing or Fallow Maintenance	Charlock, Mustards, Shepherd's Purse, Saffron, Thistle, Spear & Variegated Thistles, Turnip Weed, Wild Radish, Wild Turnip Clover Sorrel	All States	730mL/ha – 2.2L/ha 1.5L/ha plus 280 – 400mL/ha Kamba 500	

**2. FIELD CROPS**

CROP/SITUATION	WEEDS CONTROLLED	STATE	RATE	CRITICAL COMMENTS
Wheat	Refer Weed Table	NSW, SA, Vic, Qld, Tas only	450mL – 1.9L/ha	Apply after the first node can be felt at the base of a tiller and before swelling of the head can be felt in a tiller (NSW, SA only).
Barley	Refer to weed table for specific rates in each state	NSW, SA, Vic, Qld, Tas only		Apply from tillering to boot stage (Vic only). Apply from mid-tillering to before boot stage (Qld only). Apply at 5 leaf to fully tillered (Tas only).
Cereal Rye, Triticale		NSW, SA, Vic, Qld, Tas only		Apply from tillering to boot stage (Vic only). Apply from mid-tillering to before boot stage (Qld only). Apply at 5 leaf to fully tillered (Tas only).
Oats		NSW, SA, Vic, Qld, Tas only		Apply from tillering to boot stage (Vic only). Apply from mid-tillering to before boot stage (Qld only). Apply at 5 leaf to fully tillered (Tas only).
Cereals: Wheat, Oats, Barley	Cape Tulip	NSW, SA, Vic only	930mL/ha plus 1.7L/ha	Apply from the 5 leaf stage up to jointing stage (Zadoks 15-33). Apply after the 6 leaf stage (Z 16) for cranbrook, jacup, arona and spear wheat and mortlock oats to avoid possible damage. DO NOT spray if lucerne is present.
	Dock, Saffron Thistle	NSW, SA, Vic only	1.5L/ha	WEEK STAGE: 10-15cm. Docks should be sprayed before 5 leaf stage. Cape tulip – low rate for cornils only.
	Indian Hedge Mustard, London Rocket, Lupin, Rapistrum, Wild Radish	NSW, SA, Vic only	1.1L/ha	
	Wild Turnip	NSW, SA, Vic only	930mL/ha	
	Capeweed, Doublegee, Erodium, London Rocket, Lupin, Mustard, Rapistrum, Wild Radish, Wild Turnip	NSW, SA, Vic only	250mL/ha plus 500mL/ha Kenso Agcare Diuron 500 Herbicide	Apply when crop has 4-5 leaves and most weeds have germinated and are in 2-5 leaf stage. 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.
Wheat, Barley	Wild Radish	NSW, SA, Vic only	110mL/ha plus 850g/ha Bayer Tribulon herbicide	Spray 2-6 weeks after sowing and not later. DO NOT use on crops undersown with lucerne.
Fallow, Stubble Spray prior to Direct Drilling or Sowing	Refer Weed Table	Vic only	310mL – 1.9L/ha	Observe plant back periods given in the table on this booklet. Can be mixed with Siege, Ken-Chlor® 750 WDG herbicide, Para-Ken® 250 herbicide or Speedy® where grasses are present.
a) Winter Cereals		NSW only	800mL – 2.3L/ha	For skeleton weed spraying should only be done 6-8 weeks before anticipated sowing date and subsequent cultivation mixed to a minimum.
b) Winter Cereals and Maize, Sweetcorn, Peanuts		NSW, SA, Vic only	800mL – 1.5L/ha	Apply when crop is 10-20cm high and secondary roots are developing for an over the top spray. When crop is between 20cm high and just before tasselling, spray with droppers into the whorl and on upper leaves.
Maize, Sweetcorn		NSW, SA, Vic only	800mL – 1.5L/ha	Apply when crop is 10-30cm high and secondary roots have developed. Use dro nozzles and direct spray when crop exceeds 30cm in height and before tasselling.
		Tas only		Apply when the crop is 15-30cm high. Do not spray if the crop is showing signs of stress. Some leaf twisting may occur following application – crop recovers quickly.
Sorghum		NSW, SA, Vic only		Apply preferably when crop is at 3-6 fully expanded leaf stage but can be sprayed from 2-8 leaf stage. From 6 leaf stage onwards to within 2 weeks of flowering, crop can be sprayed with dropped nozzles to avoid chemical being sprayed into the whorl and on upper leaves.
		Qld only (except central Qld)		Apply when crop has 4 to 8 fully expanded leaves and secondary roots have developed.
Millet		NSW, SA, Vic only	800mL – 1.5L/ha	Spray when secondary roots have developed, when fully tillered and before heads start to form at the base of the tillers. Do not use on panarama or panicum.
		Qld only	800mL – 1.2L/ha	
Matze, Sweetcorn, Sacaline, Broom Millet, Millet	Cape Tulip, Dock, Saffron Thistle, Indian Hedge Mustard, London Rocket, Lupin, Rapistrum, Radish, Wild Turnip	WA only	1.5L/ha	Spray when crop is 10-30cm high and secondary roots have developed and before tasselling. Apply as direct spray to weeds.
Grain Sorghum		NSW, SA, Vic only		Apply when crop is 12cm high. DO NOT apply between tassell and dough stage. Avoid spraying when in flower.
Sugar Cane	Bindy Eye (Starr Burr), Blue Top, Cobblers Pegs, Fleabanes, Jute, Leucas, Needle Burr, Spear Thistle, Water Primrose, Ipomea Vines, Convolvulus Vines	Qld only	2.4L – 4.9L/ha	Add 170mL Surfactant 600 to 100L of spray mixture. Agitate well. DO NOT use on Q63, Q67, Q80 or Q96 varieties.
	Chinese Mint, Blue Snakeweed	NSW, SA, Vic only	4.9L/ha	
Peanuts	Noongora Burr, Grasses except Mossman Burr	Qld only	2.4L or 5L/ha	LOWER RATE: Apply as BAND SPRAY as soon as possible after planting in a 55cm band. HIGHER RATE: Apply as OVERALL SPRAY after planting and before crop emergence. Some crop damage may occur if heavy rain falls between application and crop emergence.
Harvest Aid or Salvage Spray - Winter Cereals	Dessicate Broadleaf Weeds	Qld & NSW only	1.7L – 2.3L/ha	Apply after dough stage.
Maize & Sorghum	Refer Weed Table			

Thoroughly clean all equipment after use either by using hot soapy water or 1% solution of ammonia followed by several clean water rinses or use Spraymate Tank & Equipment Cleaner. If using Sulfonylurea herbicides (SIEGE, Ken-Chlor® 750 WDG herbicide OR Ken-Met® 600 WDG herbicide), follow decontamination procedures detailed on those product labels.

**COMPATIBILITY**

Kenso Agcare Ken-Star 450 is compatible in tank mixes with Ken-Up® herbicides and Ken-Up Aquatic® 360 herbicides, Kamba 500®, SIEGE®, Ken-Chlor® 750 WDG herbicide OR Ken-Met® 600 WDG herbicide, Simazine Flowable, Simazine DF, Natriazine Flowable, Sprayseed®, Kensban® 500, Dimethoate, Le Mat/Comrad and Imidan.

**SURFACTANT ADDITION**

DO NOT add surfactant excepting in conservation tillage where the product is to be tank-mixed with Ken-Up® 450 CT. In this situation always add either a non-ionic surfactant (eg. Ken-Wett1000) or the acidifying surfactant LI-700 in accordance with label directions on the Ken-Up® 450 CT product.

Use LI-700 with Ken-Up® 450 CT if insecticides will be included in the tank mixture or if faster brownout of weeds is required. DO NOT mix with spraying oils, or any other materials or agricultural chemicals except as directed on this label. DO NOT use LI-700 or Bonus if sulfonylurea herbicides (SIEGE®, Ken-Chlor® 750 WDG herbicide OR Ken-Met® 600 WDG herbicide) are included in the spray mixture.

**TANK MIXTURES**

The Kenso Agcare Ken-Star 450 directions for use on this label are designed to be used as a tank mixture with Ken-Up® 450 CT, Ken-Up Aquatic® 360 herbicide. However as shown in the compatibility and surfactant addition sections of this label, it is possible to extend/improve weed control to include other foliage applied and/or residual herbicides and adjuvants.

A mixture of Kenso Agcare Ken-Star 450 and Glyphosate may be tank mixed with the following herbicides, insecticides and adjuvants where recommended in the Directions for Use tables. Read and follow all label directions, restraints and plant pack periods, withholding periods and safety directions for the tank mix products.

Kamba 500 – for improved control of Sow Thistle. Observe any regional use restrictions.

SIEGE®, Ken-Chlor® 750 WDG herbicide - Will provide control for a wide range of broadleaf weeds and grasses.

Ken-Met® 600 WDG herbicide - For improved knockdown control of Yellow Burweed (Amsinckia), Volunteer Chickpeas, Chickweed, Common Sowthistle, Cur-leaf Mignonette, Deadnettle, Faba Beans, Mallee Cathly, Soursop, Stagger Weed, Wild Garlic, Ken-Met® 600 WDG herbicide does not provide residual in-crop weed control.

**INSECTICIDES**

Chlorpyrifos 500EC, Dimethoate, Imidan® and Le Mat/Comrad® can be introduced into the tank mix for specific control to prevent insect damage to emerging crops.

**MIXING INSTRUCTIONS**

- Kenso Agcare Ken-Star 300 mixes readily with water. Ensure the spray tank is free of any residue of previous spray materials.
- Fill the spray tank with clean water to one half of the required amount and start agitation. Do not use mechanical agitators as these may cause excessive foaming when herbicides are added.
  - Where either Bonus or LI-700 acidifying surfactant is recommended at either 100mL or 300mL/100L, add to tank through top mesh screen.
  - Add recommended herbicide additive/insecticide to spray tank and mix thoroughly.
  - Add Kenso Agcare Ken-Star 450 and mix thoroughly.
  - Add Ken-Up® 450 CT and the remaining water.
  - When non-ionic surfactant is used, add near the end of the filling process to minimise foaming.
  - Always maintain adequate agitation during application and use the tank mix promptly.

**3. PASTURES, NON AGRICULTURAL, RIGHTS OF WAY, INDUSTRIAL, LAWNS**

CROP/SITUATION	WEEDS CONTROLLED	STATE	RATE	CRITICAL COMMENTS
Pastures & Non agricultural	Refer Weed Table	NSW, Qld, SA, Tas only	730mL – 2.3L/ha	Pasture legumes including lucerne, clovers and medics may be damaged unless well protected by grasses. Spot spraying is preferred.
	Amsinckia, Docks, Bindweed, Caltrop, Flatweed, Spear Thistle, Capeweed, Doublegee, Saffron Thistle, Mustard, Wild Radish, Wild Turnip, Annual Thistles, Paterson's Curse	WA only	1.5L/ha	For pastures not containing legumes. Only seeding docks, spear thistles and saffron thistle will be controlled.
	Alfalfa Melons		2.2L/ha plus 1% crop oil	Spray when plants are actively growing preferably before flowering or vining.
	Paddy Melons		1.1L – 1.5L/ha	
	Prickly Saltwort (Roly Poly)		2.2L/ha	Spray when plants are small.
	Stinkwort		2.2L – 4.4L/ha plus surfactant	Best results are obtained when plants are small. Use high rate on larger plants.
	Dove weed		4.4L/ha	Spray after good emergence of seedlings.
Pastures, Rights of Way & Industrial	Boxthorn, Boneseed, Hawthorn	Vic, SA only	110mL/10L water	Spot spraying. For boneseed only, thoroughly wet plants or seedlings.
	Groundsel	NSW, Qld, SA only	1.3L/15L water 400mL/100L water 330mL/75L water	MISTING: Lightly wet plants. HIGH VOLUME: Thoroughly wet plants CUT STUMP: Swale the cut stump within one hour of cutting. Apply by a pouring can or knapsack spray.
	Lantana		4L – 6L/10L water	AERIAL APPLICATION: Spray when groundsel is actively growing.
	Mother of Millions	NSW only	550mL/100L water	Use a coarse spray with sufficient pressure to penetrate canopy and wet stems as well as foliage. Spray at the end of a wet summer (March to May). Defoliation should occur but re-spraying of new growth will be necessary in the following Autumn. Broadcast grass seed and keep stock off following Summer to allow the pasture to establish. Damage may result to pasture legumes.
	Noongora Burr, Weir Vine (pomea)	Old only	220mL/100L water	Hand gun and Knapsack only: a thorough coverage of leaves and plantlets is necessary. Use Ken-Wet 1000 at the rate of 1.0mL of surfactant per 1L of mixture.
	Annual & Perennial Pigweed, Artichoke Thistle, Bathurst Burr, Bilyggat Weed, Blue Snake Weed, Burr Medic, Clockweed®, Fleabanes, Galvanised Burr, Hemlock, Hoary Cress, Kyalinga Weed (Whisker Grass), Knobweed, Milky Cotton Bushes, Parthenium Weed, Paterson's Curse, Saffron Thistle, Star Burr, Thornapple, Variegated Thistle		400mL/100L water	In all cases apply to young, actively growing weeds, ensuring thorough coverage.
	Rubber Vine		220mL/10L water	*Spray rosette stage *Repeat spraying if necessary
Pastures – Spray/Graze Techniques				Precaution: An increased quantity of poisonous plants may be eaten by stock using spray-graze eg. Caltrop, capeweed, paterson's curse and variegated thistle and deaths could result from causes such as nitrate poisoning. With paterson's curse, preferably graze stock destined for slaughter soon and avoid extended period of grazing. Avoid grazing with young or breeding stock. Do not graze horses or pigs on paterson's curse.
	Amsinckia, Thistles, Capeweed, Doublegee, Mustard, Paterson's Curse, Wild Turnip, Wild Radish, Docks, Geranium, Erodium	SA only	730mL/ha	Apply from 6 weeks after opening rains in autumn until the end of August. Seven days after spraying stock paddock at 4-5 times normal rate, preferably with sheep. Maintain this level of grazing for 6 weeks or until pastures show signs of over grazing. Then return to normal stocking levels. Use high stoking rates in following spring to prevent weeds from flowering. Repeat treatments may be required for 2-3 years for complete control.
	Annual Thistles, Capeweed, Doublegee, Mustards, Paterson's Curse, Turnip, Saffron Thistle, Spear Thistle	Tas, Vic only		
	Amsinckia, Docks (seeding only), Capeweed, Doublegee, Mustard, Wild Radish, Wild Turnip, Paterson's Curse, Annual Thistles	WA only	870mL/ha	Apply from 6 weeks after opening rains in autumn until the end of August. Seven days after spraying stock paddock at 4-5 times normal rate, preferably with sheep. Maintain this level of grazing for 6 weeks or until pastures shows signs of over grazing. Then return to normal stocking levels. Use high stoking rates in following spring to prevent weeds from flowering. Repeat treatments may be required for 2-3 years for complete control.
	Spear Thistle, Saffron Thistle		1.7L/ha	Apply to saffron thistle at the end of September when plants are running up to flower. Sub-clovers may be damaged at this rate and use is not recommended for all medic pastures.
	Melons		2.2L/ha	Heavy stocking on young plants sprayed with 750mL/ha provides effective control.
	Docks	Vic only	1.5L/ha	Apply in September only and follow other recommendations above.
	Caltrop, Capeweed, Charlock, Mustards, Paterson's Curse, Shepherd's Purse, Saffron, Thistle, Spear or Variegated Thistle, Turnip Weed, Wild Radish, Wild Turnip	NSW only	400mL – 1.5L/ha	Spray actively growing 6-8 week old weeds. Introduce stock 7-10 days after spraying, preferably sheep (cattle are less effective). Stocking rates should be at least 5 times heavier than normal until weeds have been reduced, but before survival of desirable pasture species is threatened. Lucerne and medics may be damaged and should be grazed short before spraying. Other legumes may be affected.
Lawns	Refer Weed Table	WA & Qld only	2.3 – 4.5mL/1L water	Wet foliage thoroughly.

**4. SPOT SPRAYING**

CROP/SITUATION	WEEDS CONTROLLED	STATE	MIXING RATE/CRITICAL COMMENTS
High Volume Spraying	Refer to Weed Table	All States	Add 1/100 <sup>th</sup> of rate on weed table to 150 litres of water. Each 150 litres of mix will cover 1000m <sup>2</sup> (1/10 <sup>th</sup> ha) eg. If rate in weed table is 1.5L use 150mL/150L water.
Knapsack Application			Add 1/100 <sup>th</sup> of rate on weed table to 10 litres of water. Each 10 litres of mix will cover 100m <sup>2</sup> (1/100 <sup>th</sup> ha). eg. If rate in weed table is 1.5L use 15mL/10L water.

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

**WITHHOLDING PERIOD: FOR PASTURE, CEREAL CROPS – DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 7 DAYS AFTER APPLICATION.**

**CROP HARVEST: NOT REQUIRED WHEN USED AS DIRECTED.**

**IN TASMANIA, THIS PRODUCT MAY ONLY BE USED FROM 15 APRIL TO 15 SEPTEMBER UNLESS OTHERWISE PERMITTED BY THE REGISTRAR OF PESTICIDES.**

**WEED TABLE:**  
The rates listed in the Weed Table below are spot spraying rates for use in crop or pasture, or for use where weeds only are present and no crop or pasture is involved.  
**NOTE:** Where weeds are to be sprayed in a CROP or PASTURE (other than spot spraying) use only the rates given for the particular crop or situation indicated under the Directions for Use.

Weeds	Application Rate per Hectare						Critical Comments
	Crop						
	Vic	NSW	SA	Qld	Tas	WA	
Amaranthus spp.	-	730mL-1.5L	-	1.2L	-	-	Spray young plants.
Apple of Peru	-	730mL-1.5L	-	1.2L	-	-	Spray young plants. Susceptible when young.
Bathurst Burr	-	1.1-1.5L	-	1.2L	-	-	Spray seedlings only.
Blackberry Nightshade	-	730mL-1.5L	-	1.2L	-	-	
California Burr	-	1.1-1.5L	-	1.2L	-	-	Spray seedlings only.
Cape Tulip	-	-	-	-	-	930mL-1.7L	Low rate for cornils only.*
Capeweed	1.9L	-	2.3L	-	1.9L	-	Spray seedlings to rosette stage.
Cattop	-	1.1-2.3L	-	1.2L	-	-	Moderately susceptible.
Charlock	730mL-1.1L	730mL-1.5L	730mL	-	1.9L	-	Spray at rosette stage.
Clover	-	1.7L	-	-	-	-	
Common Ice Plant	-	-	1.5L	-	-	-	
Docks	1.9L	-	1.9L	1.9L	1.9L	1.5L	4.4L SA ONLY
Fat Hen	-	800mL-2.3L	-	1.2L	1.9L	-	Spray at multiple leaf stage. - effective only on seedlings.
Fumitory - red	-	-	2.3L	-	-	-	Spray pre-flowering.
Fumitory - white	1.1L	-	730mL	-	-	-	Spray at multiple leaf stage.
Hexham Scent / Mellilotus	1.9L	-	1.5L	1.9L	-	-	Spray at multiple leaf stage, before seeding.
Hoary Cress	1.2-1.9L	1.5-2.3L	1.9L	1.9L	-	-	2.2-3L
Hogweed / Wireweed	1.9L	-	-	1.9L	-	-	Spray at multiple leaf (Vic). Spray at seeding and young plant stage (Qld).
Horehound	-	-	1.9L	-	-	-	3.1-4.4L SA ONLY
Khaki Weed	-	-	-	-	-	-	1.5-3L NOT SA
Lincoln Weed	-	-	2.3L	-	-	-	Spray seedlings.
London Rocket	-	-	-	-	-	1.1L	Spray early rosettes.
Lupins	-	1.1-2.3L	-	-	-	-	
Mexican Poppy	-	-	-	1.9L	-	-	Spray seedlings - plants become more resistant with age.
Mintweed	-	1.5L	-	1.2L	-	-	Spray seedlings - resistant in later stages.
Mustards	310mL-730mL	730mL-1.5L	730mL-1.9L	1.2L	-	1.1L	730mL-1.5L
New Zealand Spinach	-	1.5-2.3L	-	-	-	-	Spray at 2-4 leaf up to rosette stage.
Noogoora Burr	-	1.1-1.5L	-	1.2L	-	-	1.1-1.5L NOT SA
Paterson's Curse	-	1.5-2.3L	-	1.9L	-	1.7L	2.3-3.1L
Potato Weed	-	730mL-1.5L	-	1.2L	-	-	
Rapeseed	-	1.1-2.3L	-	-	-	-	
Rough Poppy	-	1.5L	-	-	-	-	
Safflower	-	730mL-1.9L	-	-	-	-	
Shepherds Purse	-	1.5-2.3L	-	-	1.9L	-	1.1-1.5L
Skeleton Weed	1.9L	1.5-2.3L	1.9L	-	-	-	2.3-1L
Sorrel	1.9L	2.3L	1.9L	-	-	-	Only moderately susceptible.
Speedwell-Hy Leaf	-	-	1.5L	-	-	-	
Spiny Emex	-	-	-	1.9L	-	-	Only young plants are susceptible.
Stinkwort	-	1.1-1.9L	-	-	-	-	
Storkbill / Erodium	-	-	-	-	1.9L	-	2.2-4.4L
Sunflower (seedlings)	1.9L	730mL-1.9L	-	1.2L	-	-	
Thistle - Californian	-	-	-	-	800mL	-	4.4-5.1L
- Saffron	1.5L	730mL-1.9L	1.9L	1.9L	1.3L	1.5L	1.5-2.3L
- Slender/Shore	-	1.1-1.9L	-	-	1.9L	-	1.5L
- Soldier	1.9L	-	-	-	-	-	1.5-2.2L NOT NSW, Tas
- Spear	730mL	-	-	-	1.9L	-	1.5-2.2L
- Star	-	-	-	-	-	-	2.2-4.4L SA ONLY
- Variegated	-	730mL-2.3L	-	1.2L	1.9L	-	1.5-2.3L
Thromapple	-	1.1-1.5L	-	-	-	-	2.2-3.3L NOT SA
Turnip Weed / Rapistrum	-	730mL-1.5L	-	730mL	-	1.1L	730mL-1.5L
Wards Weed	-	-	1.5L	-	-	-	
Wild Cabbage	1.9L	-	-	-	-	-	Spray multiple leaves.
Wild Poppy	730mL	-	-	-	-	-	1.5-2.3L
Wild Radish	1.9L	2.3L	1.9L	1.2L	1.9L	1.1L	1.1-1.5L
Wild Turnip	310mL-730mL	730mL-1.5L	440mL	-	1.9L	930mL	730mL-1.5L
Vetches / Tares	1.9L	-	1.5L	-	-	-	Spray at multiple leaf stage.

**PLANT BACK DAYS FOR KENSO AGCARE KEN-STAR 450**

Crop		Rates		
		Up to 730mL/ha	730mL-1.5L/ha	1.5-2.3L/ha
Balansa Clover	7	7	10	
Barley %	1	1	3	
Chickpeas #	7	14	21	
Cotton	10	14	21	
Faba Beans	7	7	10	
Field Peas	7	14	14	
Lentils	7	7	10	
Linseed	7	7	14	
Lucerne	7	7	10	
Lupins +	7	14	21	
Medic	7	7	10	
Narbon Beans	7	7	10	
Navybeans	10	10	14	
Oats	3	3	7	
Perennial Ryegrass	7	7	10	
Persian Clover	7	7	10	
Phalaris	7	7	10	
Canola / Rapeseed #	14	21	28	
Rice	7	7	14	
Safflower #	7	14	21	
Sorghum @	3	7	10	
Soybean	14	14	21	
Sub-Clover	7	7	10	
Sunflower @	7	10	14	
Trifolium #	1	3	7	
Vetch	7	7	10	
Wheat #	1	3	7	
White Clover	7	7	10	

**IMPORTANT:**  
WHEN APPLIED TO DRY SOILS AT LEAST 15mm (1/2 inch) OF RAIN MUST FALL PRIOR TO THE COMMENCEMENT OF THE PLANT BACK PERIOD.

**NOTES:**  
% In Queensland, no rainfall is required to fall prior to commencement of Plant Back Period for wheat, barley and triticale.  
# In Queensland, planting of canola / rapeseed, chickpeas and safflower must be delayed for at least 14 days following rainfall of at least 15mm.  
@ In Central Queensland, when using 1.067L/ha or less of Kenso Agcare Ken-Star 450, the Plant Back Period for sorghum and sunflower is 1 day irrespective of rainfall.  
+ In WA the Plant Back Period for lupins at all rates is 28 days.

**GENERAL INSTRUCTIONS**  
Kenso Agcare Ken-Star 450 is a water soluble liquid product with non-selective herbicidal activity against broadleaf weeds.  
Kenso Agcare Ken-Star 450 will control emerged weeds only, and provides no residual control although certain plant back periods should be observed.  
Kenso Agcare Ken-Star 450 is absorbed by plant foliage and accumulates to toxic levels in the regions of growth and reproduction, upsetting the ability of plants to balance the synthesis and use of nutrients. Visible effects are a gradual yellowing and wilting of the plants which advances to complete browning of above ground growth and deterioration of root systems. Effects may not be apparent for 7-10 days or even up to 21 days under cold or cloudy conditions.  
DO NOT treat weeds under poor growing or dormant conditions such as occur in drought, water-logging, disease, insect damage, following frost, weeds heavily covered with dust or silt. Reduced results may also occur if weeds are under stress from previous herbicide application.  
Rainfall occurring up to 6 hours after application may reduce effectiveness.  
DO NOT spray if strong winds prevail.

**CROP ESTABLISHMENT**  
Kenso Agcare Ken-Star 450 is recommended as a herbicide additive to glyphosate for control of emerged weeds prior to crop establishment. When Kenso Agcare Ken-Star 450 is applied prior to crop establishment, certain Plant Back Periods should be observed to ensure that the herbicide has degraded sufficiently to allow safe sowing of the intended crop. This process is largely influenced by moisture, temperature and certain soil characteristics and may be delayed particularly when conditions are cold and dry. Refer to the Plant Back Period table for specific information. In seasons of heavy weed growth, or where the following conditions apply, it may be necessary to further delay sowing until a suitable seedbed can be formed. Conditions which can delay crop germination and seedling development include: Heavy green or decaying weed growth incorporated into the soil; Soil compaction or crusting; Cold and wet soils; Deep seeding; Prior use of residual or pre-emergent herbicides. To minimise these effects it is suggested that: Weed bulk be reduced by grazing and cultivating to leave trash on the surface to dry out; A friable seedbed be produced by cultivation, where necessary; The use of pre-emergent herbicides to be avoided if they might contribute to reduced germination; A correct seeding depth be used. The preferred alternative is to spray early to control any weeds in their less advanced stages and ensure the seedbed is in a suitable condition for early sowing when soil temperatures are not excessively cold.

**RESISTANCE WEEDS WARNING**

**GROUP 1 HERBICIDE**  
Kenso Agcare Ken-Star 450 Herbicide (Ken-Star 450) is a member of the Phenoxys group of herbicides. Ken-Star 450 has the Disruptors of plant cell growth mode of action. For weed resistance management Ken-Star 450 is a group 1 herbicide. Some naturally-occurring weed biotypes resistant to Ken-Star 450 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 Ken-Star 450 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 Ken-Star 450 to control resistant weeds.

**PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS**

**Drift warning:** Direct spray contact or even slight drift may cause severe injury or destruction of any growing crop or other desirable plants including trees and native vegetation. DO NOT use when breeze is blowing towards nearby desirable plants. DO NOT apply under meteorological conditions or from spraying equipment that may cause spray to drift onto nearby susceptible plants, adjacent crops, crop lands or pastures. Equipment settings which produce fine droplets (150 microns or less), winds over 8 km/h, "still air" and hot dry days all contribute to drift. Avoid spray drift onto susceptible crops such as cotton, tobacco, tomatoes, flowers, vegetables, vines, fruit trees, legume crops and pastures, oil seed crops or other susceptible crops and trees (eg Kurrajongs, Belahits, Eucalypts).  
DO NOT use unless wind speed is more than 3 kilometres per hour and less than 15 kilometres per hour as measured at the application site.  
DO NOT apply with smaller than coarse to very coarse spray droplets according to the ASAE SS72 definition for standard nozzles.

**PROTECTION OF LIVESTOCK**  
Low hazard to bees. May be applied at any time as recommended in the Directions for Use.

**PROTECTION OF WILDLIFE, FISH, CRUSTACEAN AND ENVIRONMENT**  
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 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 containers 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 products should not be re-used.

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

**Envirodrom 110 L Mini Bulk Returnable Container:** Store the original sealed Envirodrom in a cool well ventilated area. DO NOT store for prolonged periods in direct sunlight. DO NOT tamper with the non-return valve or the security seal. DO NOT contaminate the Envirodrom with water or any foreign matter. After each use of the product, please ensure that the non-return valve, delivery system and hoses are disconnected, triple rinsed with clean water and drained accordingly. When the contents of the Envirodrom have been used, please return the empty Envirodrom to the point of purchase. The Envirodrom remains the property of Kenso Corporation (M) Sdn Bhd.

**SMALL SPILL MANAGEMENT**  
Sweep up material and contain in a refuse vessel for disposal in the same manner as for containers (see Storage and Disposal section).

**SAFETY DIRECTIONS**  
Poisonous if swallowed. Avoid contact with eyes and skin. DO NOT inhale spray mist. When preparing spray, wear PVC or rubber apron, elbow length PVC gloves and face shield. When using the prepared spray, wear face shield. If product on skin, immediately wash area with soap and 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, face shield and contaminated clothing.

**FIRST AID**  
If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 1311 26.

**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 its 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.

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