

POISON

KEEP OUT OF REACH OF CHILDREN

READ SAFETY DIRECTIONS BEFORE OPENING OR USING

KENSO AGCARE

DIQUAT 200 HERBICIDE

ACTIVE CONSTITUENT: 200 g/L DIQUAT
present as diquat dibromide

GROUP L HERBICIDE

For the control of a wide range of broadleaf weeds as per directions for use. For application through aircraft and ground equipment.

Kenso Corporation (M) Sdn Bhd
3C / 59 Oxford Street
Bulimba QLD 4171
Phone (07) 3217 9788
www.kenso.com.au



IMPORTANT: READ THE ATTACHED LEAFLET BEFORE USE

CONTENTS: 20 Litres APVMA Approval No.: 59332/ 20L/ 0605

KENSO AGCARE DIQUAT 200 HERBICIDE

STORAGE AND DISPOSAL

Store in the closed, original container in a dry, cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight. Store in a locked room or a place away from children, animals, food, feedstuffs, seed and fertilizers. Triple or preferably pressure rinses containers before disposal. Add rinsing to spray tank. DO NOT dispose of undiluted chemical 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 500mm 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.

110L 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 non-return 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 non-return valve, 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.

SAFETY DIRECTIONS

Very dangerous. Poisonous if absorbed by skin contact, inhaled or swallowed. Will irritate the eyes, nose, throat and skin. Avoid contact with eyes and skin. DO NOT inhale spray mist. When preparing spray and using the prepared spray wear:

- Cotton overalls buttoned to the neck and wrist;
- Washable hat;
- Elbow-length PVC gloves;
- Face shield or goggles, and
- Half-face respirator or disposable respirator

If clothing becomes contaminated with product or wet with spray remove clothing immediately. 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 and face shield or goggles, respirator and if rubber wash with detergent and warm water, face shield and contaminated clothing.

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 13 11 26. If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.

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:

**CORROSIVE,
LIQUID, N.O.S.**
(contains
diquat dibromide)
UN NO. 1760



PG III

HAZCHEM 2X

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DIQUAT 200

Herbicide

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DIRECTIONS FOR USE

RESTRAINTS:

Best results may be obtained when application is made in dull weather or at the end of the day. DO NOT spray when weeds are under drought stress or when covered with dust or soil.

Pre-harvest crop desiccation

Crop	State	Rate	Withholding Period	Critical Comments
Cotton (short stapled varieties only)	Qld, NSW, and WA only or Qld and NSW only	2 or 3 L/ha 700mL plus 16.5L Atiacide per ha	Nil	Apply when 85% of the bolls are open and remaining bolls are mature. This product can damage green bolls.
Dry Beans Peas	All States	2 or 3 L/ha	Nil	Spray as soon as the crop has reached full maturity. This product helps overcome slow and uneven ripening and weed problems at harvest.
Linseed	All States	2 or 3 L/ha	1 day grazing	Spray when the majority of seed heads are mature – 90 to 95% of seed heads have changed from yellow to brown and the seeds rattle inside the bolls. Desiccation reduces the period from maturity to harvest, particularly under wet or humid conditions.
Lupins	All States	2 or 3 L/ha	1 day grazing	Spray as soon as the crop has reached full maturity. This product helps overcome slow and uneven ripening and weed problems at harvest.
Mung Beans	Qld and NSW only	2 to 3 L/ha	Nil	Apply when 80 to 90% of pods are black or brown. Desiccation of weeds and foliage aids timely and efficient harvesting, reduces harvester wear and tear but can increase harvest losses. Harvest 2 to 5 days after spraying.
Perennial Legume Seed Crops	All States	1.5 or 3 L/ha	Nil	Lucerne – Spray when 60 to 70% of the pods are brown/bluish and the seeds are yellow/brown and easily released from the pods. Red Clover – Spray when majority of seed heads are brown and the seed is purple. White Clover – Spray when majority of seeds are hard and yellow. The use of Diquat enables direct harvesting instead of cutting and windrowing and may result in higher seed quality. Harvest 3 to 4 days after spraying.
Pigeon Peas	Qld and NSW only	2 to 3 L/ha	4 days	Spray as soon as the crop has reached full maturity.
Potato (Haulm desiccation)	All States	3 to 4 L/ha	7 days	Apply as soon as crop is ready to harvest. DO NOT apply during drought periods, particularly when the tops will wilt during the day. In such conditions wait at least 3 days after the soil has been well moistured by rain or irrigation. Leaf kill is rapid following spraying and usually complete within 4 days. Stem kill may take 10 to 14 days. Lift when desiccation is complete but where possible wait for 14 days after spraying to allow skin to harden off. Use high water volumes to obtain coverage of dense haulm. To remove weed growth and facilitate digging, spray about 7 days prior to harvest. Where digging has been postponed and tubers stored in the ground often for a lengthy period, weed growth can be heavy and impede mechanical diggers unless removed.
Ground stored – pre-harvest weed control		1.5 L/ha plus 1.2 L Para-ken 250		
Rape	All States	1.5 or 3 L/ha	4 days	Spray when 70% of the pods are yellow and the seeds are brown/bluish and pliable. Canola ripens unevenly and is prone to pod shatter and seed loss. Direct harvest 4 to 7 days after spraying.
Rice	Qld and NSW only	2 or 3 L/ha	5 days	Spray when the grain is mature – not more than 2 to 3% of the grain is still at the milky stage and the grain moisture content must be less than 25%.
Sorghum	Qld and NSW only	2 or 3 L/ha	1 day grazing	Spray as soon as the seed is mature and the moisture content about 25%. Diquat will advance harvest and reduce seed losses due to differential ripening, seed shedding and birds.
Soya Beans	Qld, NSW and WA only	2 or 3 L/ha	4 days	Spray when 80% of the pods are yellow/brown and the seeds are ripe – yellow and pliable. Desiccation of weeds and foliage aids timely and efficient harvesting, minimizes cost and increases yields. Harvest 4 to 7 days after spraying.
Sugar cane	Qld and NSW only	2 or 3 L/ha	4 days	Spray all accessible faces a few days prior to burning to a depth of about 30 metres. The sprayed cane and weed growth quickly dries out and ensures a good burn and removal of trash prior to harvest. Spray to visible wetness.
Sunflower	All States	2 or 3 L/ha	4 days	Spray when the seed is mature, seed moisture 35% and below, kernel full and firm, the disc spongy when broken, florets loose and bracts browning off. Harvesting can commence as soon as vegetative parts of crops are desiccated, usually 7 to 14 days after spraying.
Sweet Potatoes	Qld only	3 to 4 L/ha	14 days	Apply 2 weeks prior to harvest.

Aerial Application

Flying height, pressure, nozzle size and positioning on the aircraft should be such as to minimize spray drift. Apply 30 to 60 L of spray per hectare. Avoid spraying in high winds or under temperature inversion conditions. Wash any spillage during filling of the aircraft and make sure there are no leaks in the spraying system. Inspect the aircraft regularly for signs of corrosion and ensure the paintwork is in good condition.

Caution – Use By Aircraft

Although this product is no different in drift behaviour from other chemicals, it has a rapid spotting effect on green foliage and, as with all herbicides, special care must be taken to avoid drift on to an adjacent crops. Aircraft operators must not apply during periods of thermal (temperature) instability, and should avoid wind conditions and flying heights conducive to drift.

WEED CONTROL IN ROW CROPS, VEGETABLES AND MARKET GARDENS

Pre-planting and pre-crop emergence

To control weeds in seedbeds before sowing, or post-sowing pre-crop emergence, blanket spray with this product using boom spray equipment or knapsack sprayers.

Pre-emergence inter-row weed control

Use shielded nozzles for rapid control of weeds in inter-row spaces of row crops, after crop seedlings have emerged, or when transplanted crops are established. **Direct the spray so that it does not touch the crop.**

Pre-harvest crop desiccation

Green crop foliage and weeds can seriously interfere with harvesting operations of a number of crops. This product can be used to facilitate harvesting by desiccating weeds, accelerating the drying of crops and reducing the moisture content of seeds. Drying costs are reduced, harvesting delays and associated risks avoided.

Misting application

The use of misting machines is not recommended for broad hectare spraying. If operators do use this product through misting machines, they must be cut back to run at half-throttle, thus preventing the production of fine droplets, the inhalation of which may be dangerous. When misting with this product for weed control in confined spaces, or where there is a risk of exposure to spray mist, wear waterproof footwear, waterproof protective clothing, impervious gaiter/leg gloves (rubber or PVC), goggles, face mask and respirator covering the nose and mouth and capable of filtering spray droplets. A high efficiency type particulate respirator is recommended but in any event use a respirator which complies with the requirements of AS1716 (Standards Association of Australia).

Further advice on safety equipment should be obtained from a safety equipment manufacturer. It should be noted that beards may reduce the efficiency of respirators.

WARNING

Markers – If possible fixed markers should be used. If necessary to use human markers, they should be fully informed and should observe all the safety directions and precautions contained in this leaflet.

Human Markers – must avoid exposure to the spray mist, eg by always working upwind and where possible standing at least 50 metres beyond the edge of the target area. Protective clothing such as broad-brimmed hat, goggles, half-face respirator, waterproof jacket and pants, gloves and boots should be worn. A high efficiency type particulate respirator is recommended, but in any event a respirator which complies with the requirements of AS1716 (Standards Association of Australia) should be used. DO NOT touch or walk through freshly treated crops.

Compatibility

This product mixes readily with Para-ken 250 Herbicide, the soil residual herbicides Atrazine 900 WG, Diuron 900 WDG and Simazine 900 WG and other 200 g/L paraquat products, where prolonged weed control is required as well as a quick knockdown.

General weed control

Crop	Weeds Controlled	State	Rate	Withholding Period	Critical Comments
Aquatic areas	Duck Weeds, Red Azolla, Water Hyacinth, Salvinia, Marsilea, Water Lilies and Water Lettuce	All States	5 or 10 L/ha	10 days	Apply as an overall spray wetting foliage thoroughly. Clear water is necessary for best results as suspended soil particles interfere with herbicidal action. Use the higher rate for heavy infestations or for deep or dirty water.
			400 mL plus 150 mL Agral per 100 L water		Small areas – spray to wet weeds thoroughly. About 1mL of product should be sufficient to treat about 1 m ² .
	Cattail and Pond Weeds		5 L/megalitre water		Apply by injection below the surface or as a surface spray.
Asparagus	Broadleaf weeds	All States	1.4 L/ha plus 800 mL Agral in 400L water/ha	Nil	Apply to control seedling weeds before spears have emerged.
Hops	Annual broadleaf and grass weeds	Vic and Tas only	700mL or 1.4 L/ha may be mixed with 1.2 to 1.6L/ha Para-ken 250 and/or 1.1 kg/ha Simazine 900 WDG	Nil	Apply as a directed inter-row spray prior to crop emerging from winter dormancy, using a minimum of 250 L/ha spray volume to ensure good and even coverage of weeds. Add Agral or Ken-Wett 1000 at the rate of 200 mL/100L water –see General Instructions. If used with Para-ken 250 observe safety directions for that product.
Infested areas	Cotton Thistle (<i>Onopordum acanthium</i>)	Tas only	300 mL/ha plus 150mL Agral in 100 L water	Nil	Spot spray at the rosette stage before the center shoot is 15cm tall. The spray should be applied to give complete wetting of the leaf surface. DO NOT use a lower rate or treat at a later growth stage.
	Saffron Thistle	All States	2.8L/ha plus 1L Agral in 200L water/ha 100mL plus 70mL Agral per 15 L knapsack	Nil	Apply as an overall treatment to prevent seeding. Alternatively spot spray on the same basis.
Lucerne	Capeweed and Erodium spp	All States	350 mL/ha plus Agral in 200 L water/ha 700 mL/ha plus Agral in 200 L water/ha	1 day grazing	Early autumn application Late winter application Heavy grazing is necessary to reduce Lucerne to 2 cm in height before spraying.
Oil seed poppies	Weed control	Tas only	300 mL to 1.5 L/ha	1 day grazing	Use in accordance with recommendations made by Department of Primary Industries of the poppy contracting company. DO NOT add Agral or any other wetting agent to the spray solution.
Orchards and Vineyards	Capeweed	All States	1.5 L plus 1.4 L Agral in 700 mL water per ha plus 1.6 L/ha Para-ken 250	Nil	Under most conditions Para-ken 250 at 1.6 L/ha will give effective control of grasses and broadleaf weeds in orchards, but where heavy infestations of Capeweed occur this product should be added to Para-ken 250 at the rate of 1.2 L/ha. For inter-row or around butts use high volume applications. For full ground cover use a minimum of 700 mL/ha. Para-ken 250 and this product have no effect on brown bark but care should be taken when spraying around trees to avoid spray contacting green bark. There are no harmful soil residues.
Pasture Renovation and establishment	Capeweed and Erodium spp. (Storksbill)	All States	750 mL or 1.5 L/ha plus Agral in a minimum of 100 L water	1 day grazing	Apply by boom spray as an overall spray on "run down" pasture after heavy grazing. Pasture should not be greater than 4 cm long when sprayed. Grazing should be carried out during previous spring, summer and early autumn. Where Capeweed is in the very young seedling stage (2 or 3 true leaves only) rates may be reduced to 350 mL/ha. Where Capeweed infestation is high, oversowing with new pasture seed by direct drilling is advisable. Direct drill 3 to 7 days after spraying using a pasture mixture suitable to the district.
Row crops, vegetables and market gardens	Broadleaf weeds	All States	1.4 L/ha	Nil	(seedling weeds) (mature weeds)
			2.4 L/ha or 4 L/ha per 200 to 300 L water/ha plus 200 mL Agral per 100 L water		
					Para-ken 250 is more generally used for grass and broadleaf weed control in these situations. However, where broadleaf weeds dominate, particularly Capeweed, this product should be used as an addition to Para-ken 250 or instead of Para-ken 250 where grass weeds are absent.

Wheat and oats	Capeweed	Qld, NSW, Vic, Tas and SA only	550 mL/ha 700 mL/ha in 200 L/ha	Nil	Small seedlings } Older seedlings } DO NOT add wetting agent. Spray when the crop is between the 4 (wheat) or 3 (oats) leaf and early tillering stage.
Winter cereals	Pre-harvest weed control	All States	1 or 3 L/ha	Nil	Spray as soon as the crop is fully mature and ready for harvesting. Under wet spring conditions crops can periodically become infested with weeds which seriously interfere with harvest operations.
Wheat		NSW only	2 L/ha 3 L/ha		Light to moderate stands } Ensure that spray penetrates deep down into the crop canopy. Moderate to heavy stands }

† Use higher rate for dense or weedy crops.

WETTING AGENT: add Agral at the rate of 200 mL/100L or Ken-Wett 1000 at 160 mL/100 L of prepared spray unless otherwise specified.

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

WITHHOLDING PERIODS:	
DO NOT GRAZE OR CUT SPRAYED VEGETATION FOR STOCK FOOD FOR AT LEAST 1 DAY AFTER APPLICATION.	
DO NOT APPLY LATER THAN LISTED DAYS BEFORE HARVEST:	
Pigeons Peas, Canola, Sunflower, Soya Beans, Sugar cane:	4 DAYS
Rice :	5 DAYS
Potatoes:	7 DAYS
Sweet Potatoes:	14 DAYS

GENERAL INSTRUCTIONS

Diquat 200 Herbicide is an aqueous solution of diquat, a non-volatile herbicide with unique properties. It very quickly kills green growth with which it comes into contact and is particularly effective against broad leaved weeds. It is rapidly absorbed and is not affected by rain falling shortly after application. It is inactivated on contact with the soil and crop roots and seeds below the soil remain unharmed. It can be safely applied around bushes and trees which have no green bark. It is non-volatile, easily mixed with water and active at low concentrations.

Resistant Weeds Warning

Diquat 200 Herbicide is a member of the bipyridyl group of herbicides. Diquat 200 has the inhibitor of photosynthesis at photosystem I mode of action. For weed resistance management Diquat 200 is a Group L herbicide. Some naturally occurring weed biotypes resistant to Diquat 200 and other inhibitors of photosynthesis at photosystem I 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 Diquat 200 or other inhibitors of photosynthesis at photosystem I herbicides.

Since the occurrence of resistant weeds is difficult to detect prior to use, Kenso Corporation accepts no liability for any losses that may result from the failure of Diquat 200 to control resistant weeds.

Mixing

Add the required quantity of product to water in the spray tank and stir to give even mixing. Mix again if left standing. Use clean water only, as suspended soil particles in dirty water interfere with herbicidal action.

Method Of Application

For best results an even and complete coverage and good penetration of the spray into the target foliage is necessary. Best results will be obtained when application is made in dull weather or at the end of the day.

Application Rates

For application to seedling weeds Diquat 200 Herbicide is generally recommended at 1.4 L/ha and Para-ken 250 Herbicide at 1.1 L/ha. Use Diquat 200 at 2.8 to 4 L/ha and Para-ken 250 at 2.2 to 3.2 L/ha when weeds are at the older stages of growth. Para-ken 250 is preferred where grasses are dominant and Diquat 200 where there are mainly broadleaf weeds. Best results may be obtained when application is made in dull weather or at the end of the day. This product may also be used with 200 g/L paraquat products at 1.4 L/ha for seedling weeds and 2.8 to 4 L/ha for older stages of weed growth.

Boom Spraying

A boom sprayer fitted with flat fan nozzles is preferred to ensure even coverage and to minimize drift. The boom should be set at sufficient height above the crop to provide a complete double overlap of the flat spray pattern. Spray drop arms on booms are useful for dense crops such as potatoes. A minimum spray volume of 100 L/ha is recommended.

High Volume Spot Spraying

Hand held equipment use 250 mL of product per 100 L of water and spray to visible wetness (about 700 to 1000 L/ha). Use 50 mL product plus 30 mL Agral .

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

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

PROTECTION OF LIVESTOCK

Domestic pets and poultry – keep away from treated areas. Low hazard to bees. No special precautions are required.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS 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 dry, cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight. Store in a locked room or a place away from children, animals, food, feedstuffs, seed and fertilizers. Triple or preferably pressure rinse containers before disposal. Add rinsing 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.

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- ❖ washable hat;
- ❖ elbow-length PVC gloves;
- ❖ face shield or goggles, and
- ❖ half-face respirator or disposable respirator.

If clothing becomes contaminated with product or wet with spray remove clothing immediately. 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 and face shield or goggles, respirator and if rubber wash with detergent and warm water, face shield and contaminated clothing.

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