

POISON

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

OzCrop

Diquat 200

HERBICIDE



**ACTIVE CONSTITUENT: 200 g/L DIQUAT present as DIQUAT
DIBROMIDE MONOHYDRATE**

GROUP L HERBICIDE

*For the control of wide range of broad leaf weeds in
certain crops as per Directions for Use table.*

CONTENTS:

20L, 110L, 1000L

		UN NO.: 3016 BIPYRIDILUM PESTICIDES LIQUID CORROSIVE LIQUID, TOXIC, N.O.S. (contains diquat dibromide) PACKAGING GROUP III HAZCHEM CODE 2X
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BATCH NO.

DATE OF MANUFACTURE:

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DIRECTIONS FOR USE

Restrains:

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	STATES	RATE ^	WHP	CRITICAL COMMENTS
Cotton(short stapled varieties only)	Qld, NSW, WA only	2 to 3 L/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 to 3 L/ha	Nil	Spray as soon as the crop has reached full maturity. Helps overcome slow and uneven ripening and weed problems at harvest.
Linseed	All States	2 to 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 to 3 L/ha	1 day grazing	Spray as soon as the crop has reached full maturity. Helps overcome slow and uneven ripening and weed problems at harvest.
Mung Beans	Qld, 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 to 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 OZCROP DIQUAT 200 HERBICIDE 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, 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 moistened 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.
Ground stored – pre-harvest weed control		1.5 L/ha plus 1.2 L/ha OzCrop Paraquat 250 Herbicide		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.
Canola	All States	1.5 to 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, NSW Only	2 to 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, NSW Only	2 to 3 L/ha	1 day grazing	Spray as soon as the seed is mature and the moisture content about 25%. OZCROP DIQUAT 200 HERBICIDE will advance harvest and reduce seed losses due to differential ripening, seed shedding and birds.
Soya Beans	Qld, NSW, WA only	2 to 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, minimises cost and increases yields. Harvest 4 to 7 days after spraying.
Sugar Cane	Qld and NSW only	2 to 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.
		High volume hand spraying 200 mL/ 200L water		Spray to visible wetness.
Sunflowers	All States	2 to 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 crop are desiccated, usually 7 to 14 days after spraying.
Sweet Potatoes	All States	3 to 4 L/ha	14 days	Apply two weeks prior to harvest

General weed control

Crop	Weeds	States	Rate ^	WHP	Critical Comments	
Aquatic areas	Duck Weeds, Red Azolla, Water Hyacinth, Salvinia, Marsilea, Water Lilies and Water Lettuce	All States	5 to 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/ha plus 150 mL Agral® / 100 L water		Small areas – spray to wet weeds thoroughly. About 1 mL of product should be sufficient to treat about 1m 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 400 L water	Nil	Apply to control seedling weeds before spears have emerged.	
Hops	Annual broadleaf and grass weeds	Vic and Tas only	700 mL to 1.4 L/ha may be mixed with 1.2 to 1.6 L/ha OzCrop Paraquat 250 Herbicide and/or 1.1 kg Simazine 900 Granules	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 at the rate of 200mL/100L water – see General Instructions. If used with OZCROP Paraquat 250 Herbicide observe safety directions for that product.	
Infested areas	Cotton Thistle (<i>Onopordum acanthium</i>)	Tas only	300 mL/ha plus 150 mL Agral in 100 L water	Nil	Spot spray at the rosette stage before the centre shoot is 15 cm 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	2.8 L/ha plus 1 L Agral in 200 L water		Apply as an overall treatment to prevent seeding.	
			100 mL plus 70 mL Agral per 15 L knapsack		Alternatively spot spray on the same basis.	
Lucerne	Capeweed and <i>Erodium</i> spp.	All States	350 mL/ha plus Agral in 200 L water	1 day grazing	Early autumn application	Heavy grazing is necessary to reduce lucerne to 2 cm in height before spraying.
			700 mL/ha plus Agral in 200 L water		Late winter application	
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 or 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/ha plus 1.4 L Agral in 700 L water plus 1.6 L/ha OzCrop Paraquat 250 Herbicide	Nil	Under most conditions OzCrop Paraquat 250 Herbicide at 1.6 to 3.2 L/ha will give effective control of grasses and broadleaved weeds in orchards, but where heavy infestations of capeweed occur OZCROP DIQUAT 200 HERBICIDE should be added to OzCrop Paraquat 250 Herbicide at the rate of 1.5 L/ha. For inter-row or around butts use high volume applications. For full ground cover, use 700 mL/ha. OzCrop Paraquat 250 Herbicide and OZCROP DIQUAT 200 HERBICIDE have no effect on brown bark but care should be taken when spraying around trees to avoid spray contacting green bark or plant material. There are no harmful soil residues.	
Pasture Renovation and establishment	Capeweed and <i>Erodium</i> spp. (Storksbill)	All States	750 mL to 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, oversewing 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.	
	Barley Grass, Brome Grass, Silver Grass and Sweet Vernal Grass		750 mL to 1.5L/ha plus 1 to 2 L/ha OzCrop Paraquat 250 Herbicide in a minimum of 100L/ ha			

Crop	Weeds	States	Rate ^	WHP	Critical Comments	
Row crops, vegetables and market gardens	Broadleaf weeds	All States	1.4 L/ha	Nil	Seedling Weeds	OzCrop Paraquat 250 Herbicide are more generally used for grass and broadleaf weed control in these situations. However, where broadleaf weeds dominate, particularly capeweed, OZCROP DIQUAT 200 HERBICIDE should be to tank mixed with OzCrop Paraquat 250 Herbicide or instead of OzCrop Paraquat 250 Herbicide where grass weeds are absent.
			2.4 to 4 L/ha per 200 to 300 L water plus 200 mL Agral per 100 L water		Mature Weeds	
Wheat and Oats	Capeweed	Qld, NSW, Vic, Tas and SA only	550 mL/ha in 200 L of water	Nil	Small seedlings. Do not add wetting agent. Spray when the crop is between the 4 (wheat) or 3 (oats) leaf and early tillering stage.	
			700 mL/ha in 200 L of water		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 to 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	Nil	Light to moderate stands.	Ensure that spray penetrates deep down into the crop canopy
			3 L/ha		Moderate to heavy stands.	Ensure that spray penetrates deep down into the crop canopy

NOTE: Use higher rate for dense or weedy crops..

^ WETTING AGENT: Add Agral® at the rate of 200 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 PERIOD

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:

Pigeon peas, canola, sunflower, soya beans, sugar cane: DO NOT HARVEST FOR 4 DAYS AFTER APPLICATION

Rice: DO NOT HARVEST FOR 5 DAYS AFTER APPLICATION

Potatoes: DO NOT HARVEST FOR 7 DAYS AFTER APPLICATION

Sweet Potatoes: DO NOT HARVEST FOR 14 DAYS AFTER APPLICATION

DO NOT USE TREATED WATER FOR HUMAN CONSUMPTION, LIVESTOCK WATERING OR IRRIGATION PURPOSES FOR 10 DAYS AFTER APPLICATION

GENERAL INSTRUCTIONS

Uses

OZCROP 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 broadleaf weeds. 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

OZCROP DIQUAT 200
HERBICIDE Non-Residual

GROUP L HERBICIDE

Herbicide is a member of the bipyridyl group of herbicides. OZCROP DIQUAT 200 HERBICIDE has the inhibitor of photo-synthesis at photosystem I mode of action. For weed resistance management OZCROP DIQUAT 200 HERBICIDE is a Group L herbicide. Some naturally occurring weed biotypes resistant to OZCROP DIQUAT 200 HERBICIDE and other Group L 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 OZCROP DIQUAT 200 HERBICIDE or other Group L herbicides. Since the occurrence of resistant weeds is difficult to detect prior to use, OzCrop Pty Ltd accepts no liability for any losses that may result from the failure of OZCROP DIQUAT 200 HERBICIDE to control resistant weeds.

MIXING

Add the required quantity of OZCROP DIQUAT 200 HERBICIDE to water in the spray tank and agitate to give even mixing. Agitate again if left standing. Use clean water only, as suspended soil particles in dirty water will 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. OZCROP DIQUAT 200 HERBICIDE is rapidly absorbed and is not affected by rain falling shortly after application.

Application Rates

Use the higher rates specified in the directions for use for dense or weedy crops. For application to seedling weeds OZCROP DIQUAT 200 HERBICIDE is generally recommended at 1.4 L/ha and OzCrop Paraquat 250 Herbicide at 1.2 L/ha. Use OZCROP DIQUAT 200 HERBICIDE at 2.8 to 4 L/ha and OzCrop Paraquat 250 Herbicide at 1.6 to 3.2 L/ha when weeds are at the older stages of growth. OzCrop Paraquat 250 Herbicide is preferred where grasses are dominant and OZCROP DIQUAT 200 HERBICIDE where there are mainly broadleaf weeds.

Boom Spraying

A boomsprayer fitted with flat fan nozzles is preferred to ensure even coverage and to minimise 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. Aim for a spray quality in the fine to medium range, i.e. a VMD droplet size of 200 to 250 μm . Generally a flat fan nozzle operated at 200 to 300 kPa is preferred.

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 per 15 litre knapsack.

Aerial Application

Flying height, pressure, nozzle size and positioning on the aircraft should be such as to minimise 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 paint work 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 adjacent crops. Aircraft operators must not apply during periods of thermal (temperature) instability, and should avoid wind conditions and flying heights conducive to drift.

Compatibility

This product mixes readily with OzCrop Paraquat 250 Herbicide, the soil residual herbicides Gesaprim Granules, Diurex* WG and Gesatop Granules where prolonged weed control is required as well as a quick knockdown.

WEED CONTROL IN ROW CROPS, VEGETABLES AND MARKET GARDENS

Pre-planting and pre-crop emergence

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

Post-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.

WARNING

Markers - If possible fixed markers should be used. Human markers are not recommended unless flaggers are protected by engineering controls such as vehicles with cabs.

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 place away from children, animals, food, feedstuffs, seed and fertilisers. 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.

FOR REFILLABLE CONTAINERS

Storage must be secure so that contents cannot be tampered with. All locks and/or seals must be in order. If locks or seals are broken prior to initial use, then the integrity cannot be assured. If this occurs OZCROP Pty Ltd should be advised immediately. Empty contents fully into application equipment. Close all the valves and return to point of supply for refill or storage.

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; 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, and contaminated clothing.

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone 131 126. If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.

SDS

If additional hazard information is required refer to the Safety Data Sheet (SDS) available from the supplier.

Safe Work Australia:

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

May cause damage to organs through prolonged or repeated exposure.

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well ventilated area.

Contaminated work clothing should not be allowed out of the workplace.

Get medical advice or attention if you feel unwell.

Remove all contaminated clothing immediately.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

If skin irritation or rash occurs: Get medical advice.

CONDITIONS OF SALE: OzCrop Pty Ltd has no control over storage, handling and manner of use of this product. Where this material is not stored, handled or used correctly and in accordance with directions, no express or implied representations or warranties concerning this product (other than non-excludable statutory warranties) will apply. Ozcrop Pty Ltd accepts no liability for any loss or damage arising from incorrect storage, handling or use



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