## AQUATIC WEED CONTROL

| SITUATION | WEEDS CONTROLLED | RATE | CRITICAL COMMENTS |
|---|---|---|---|
| **Lakes and ponds** (still water) | Controls a range of aquatic weeds including: **Canadian pondweed** (*Elodea canadensis*), Lagarosiphon (*Lagarosiphon major*), **Pondweeds** (*Potamogeton crispus* and *Potamogeton ochreatus*), **Hornwort** (*Ceratophyllum demersum*) | **Boom -** 30 litres per hectare. **Handgun -** 2 litres/100 litres of water, applying 1.5 litres of spray mix / 10 square metres. | In boom application from aircraft or boat, use sufficient water to obtain even coverage. Alternatively, apply below surface using trailing nozzles behind a mobile platform. |
| **Drains and waterways** (flowing water) | | 30 litres per hectare. | Apply by trailing nozzles below surface behind a mobile platform, or broadcast spraying (travelling upstream) is recommended. DO NOT treat where water is flowing at more than 1 km per hour (30cm / sec). |

DIQUAT 200SL is recommended and approved for use in lakes and waterways for the control of weeds growing below the water surface (i.e. submerged weeds). For control of grass and broadleaf weeds growing on drain banks and also above the water surface (emergent weeds), refer to paraquat labels.

**WARNING:**
- Injections from a fixed point must NOT be made.
- When applied to any natural water, treated water must NOT be bathed in, used for human consumption, fish farming or livestock watering for 24 hours after application.
- In a lake or any standing water, to maintain adequate oxygen supply to fish, NOT more than one quarter of the area should be treated at one time.
- Treated still water should NOT be used for overhead irrigation, until 10 days after treatment. However, water from a flowing water course may be used 24 hours after treatment.
- Consult the appropriate Regional Council before discharging DIQUAT 200SL into natural water.

**NOTES:**
- DIQUAT 200SL is NOT effective in turbulent, muddy water or where suspended organic matter is above 1 ppm.
- Treatment is best when water levels are at their lowest and temperatures at their highest.
- DIQUAT 200SL at the recommended rates is not toxic to fish.
- A non-ionic wetting agent should be added to DIQUAT 200SL at label rates for aerial application, but it is not required when using the injection technique.

**MIXING**
Use clean water only (dirty water will interfere with the action of the chemical). Partly fill spray tank with water, add the DIQUAT 200SL and add a non-ionic wetting agent (where recommended), mix, then top up with water to required volume.

**APPLICATION**
Conventional spray equipment may be used for application. In all cases complete coverage is essential. For boom spraying use a minimum of 300 litres of water per hectare, but up to 1100 litres per hectare may be necessary when using for "Potato Haulm Destruction" (refer to specific directions above). After use, wash out all spraying gear with 2 or 3 changes of clean water.

**WETTING AGENT**
DIQUAT 200SL contains no wetting agent and a non-ionic wetting agent MUST be added to the spray mixture at label rates, with the exception of the following uses:
(a) Potato Haulm Destruction - DO NOT add a wetting agent.
(b) Submerged Aquatic Weed Control (Injection Method) - DO NOT add a wetting agent.

**IT IS AN OFFENCE FOR USERS OF THIS PRODUCT TO CAUSE RESIDUES EXCEEDING THE RELEVANT MRL IN THE FOOD NOTICE: MAXIMUM RESIDUE LEVELS FOR AGRICULTURAL COMPOUNDS.**

**WITHHOLDING PERIODS**
Beans, Lentils, Peas ..... 7 days.

**UN1760. CLASS 8, PG III. CORROSIVE LIQUID, N.O.S. (DIQUAT 20%).**
Do not carry this product on a passenger service vehicle.

## DIRECTIONS FOR USE:

**POTATOES**

| USE | SITUATION | RATE | CRITICAL COMMENTS |
|---|---|---|---|
| **Haulm destruction** | Very dense haulms | Two applications 7 to 10 days apart in 600 to 1100 litres/ha. 1st application 3 to 4 litres/ha. 2nd application 1.5 to 3 litres/ha. **OR** 4 to 6 litres in 900 to 1100 litres of water/ha as a single application. | As a general guide DIQUAT 200SL should be applied to the crop about 14 days before proposed harvesting date. Leaf kill following DIQUAT 200SL treatment is rapid and usually complete after four days, but stem kill will take up to 14 days, depending on such factors as density of haulms and weather conditions following spraying (kill is more rapid during bright weather). Under conditions of hardened top growth, the split application is preferable for best results. |
| | Moderate to sparse haulms | 3 to 4 litres in 600 to 1100 litres of water/ha. | Single application satisfactory. |
| **Pre-Digging** Weed control | Broadleaf weeds only | 3 to 4 litres in 350 to 450 litres of water/ha. | Where digging has been postponed for an extended period, weed growth may need to be removed to provide a clean harvest. A non-ionic wetting agent MUST be added at label rates. |
| | Broadleaf and grass weeds | 1.5 to 2 litres PARAQUAT (25% A.I.) plus 1.5 to 2 litres DIQUAT 200SL in 350 to 450 litres of water/ha. | A non-ionic wetting agent MUST be added at label rates. |

**Notes**
- DIQUAT 200SL is NOT recommended for use on the Rua variety.
- The rate of DIQUAT 200SL necessary will be governed by the vigour and density of the haulm at the time desiccation is required. Potato varieties with vigorous, dense tops such as Sebago and Tahi may require two applications applied 7 to 10 days apart to ensure complete spray penetration.
- Avoid application of DIQUAT 200SL to potatoes when the haulms are heavily laden with early morning dew. This can cause the chemical to be shed, leading to poor leaf desiccation. During prolonged dry periods the use of any haulm destroyer may damage the tubers. DO NOT spray when the soil is very dry.
- DO NOT use a wetting agent with DIQUAT 200SL for potato haulm applications.

**CROPS**

| CROP | USE | RATE | CRITICAL COMMENTS |
|---|---|---|---|
| **Barley, Wheat** **Note:** Oat crops grown for stock feed may be similarly treated but not used for human consumption. | Pre-harvest crop and weed desiccation. | **Aerial -** apply 3 to 4 litres in a minimum of 350 litres of water/ha. (Non-ionic wetting agent MUST be used at label rates.) | To remove weeds, hasten maturity and reduce the risk of harvesting losses from adverse weather. Weeds growing in a fully matured crop may be desiccated to allow clean bulk harvesting. |
| **Hormone hazardous areas** | Gorse | 700ml plus 200ml of a non-ionic wetting agent per 100 litres of water. | Where risk of damage to sensitive crops precludes the use of hormone sprays DIQUAT 200SL is an alternative. Thorough coverage is essential. |
| **Green Beans, Lentils, Peas, Soya Beans** | As a desiccant and also to remove weeds and prevent secondary crop growth. | 3 to 4 litres in 300 to 350 litres of water/ha. **Aerial -** a minimum of 4 litres in 350 litres of water/ha. (Non-ionic wetting agent MUST be used at label rates.) | Apply 7 days prior to harvesting, as soon as the seeds are fully developed and the pods are drying. |
| **Lucerne, Red Clover, White Clover** | Desiccation | 3 litres in 300 to 350 litres of water/ha. (Non-ionic wetting agent MUST be used at label rates.) | As soon as the seed from the main flowering has matured, further crop growth can be halted in preparation for harvest. |

**DANGER**
KEEP OUT OF REACH OF CHILDREN

# Diquat® 200SL

**For use as a desiccant in Barley, Green Beans, Lentils, Lucerne, Peas, Red Clover, Soya Beans, Wheat and White Clover and haulm destruction in Potatoes.**

Active Ingredient: Contains 200g/litre diquat as the dibromide salt in the form of a soluble concentrate.

**GROUP D HERBICIDE**

Registered pursuant to the ACVM Act 1997 No. P8006
See www.foodsafety.govt.nz for registration conditions

In a transport emergency dial 111, Police or Fire Brigade.
**For specialist advice in an emergency only call:**
**0800 734 607 (24 hours).**

9 421903 469199 >

**Net Contents: 20 litres**

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## READ LABEL BEFORE USE

**Approved under the HSNO Act 1996,** HSR000446.
See www.epa.govt.nz for controls.
**HSNO Classifications:** 6.1C (Inhalation), 6.1D (Oral), 6.3A, 6.9A, 8.1A, 9.1A, 9.3C
**Qualified Person/Contractor:** Required.

Toxic if inhaled. Harmful if swallowed. Causes skin irritation. Causes damage to organs through prolonged or repeated exposure. May be corrosive to metals.
**PRECAUTIONS:** Keep out of reach of children. Read label before use. Keep only in original container. Do not breathe fumes, vapours or spray. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective clothing. Collect Spillage. Avoid contact with skin and eyes, and inhalation of spray mist. When mixing or applying wear appropriate clothing including impervious, elbow-length gloves and eye protection. Suitable or appropriate respiratory and eye protection should also be worn. Wash hands and exposed skin before meals and after work. Apply this product carefully. Spray drift may cause serious damage to desirable plants. Ensure compliance with relevant regional air management plans. Do not apply directly into or onto water.
**STORAGE:** Store locked up in the original, unopened container in a cool, dry place, out of direct sunlight and away from stockfeed or foodstuffs. As a Class 9 Substance with Ecotoxicity Classifications, storage must be carried out in such a manner as to prevent contamination of waterways. It is recommended that The New Zealand Standard for the Management of Agrichemicals (NZS8409) is followed. See Safety Data Sheet for further information.
**VERY TOXIC TO AQUATIC LIFE WITH LONG-LASTING EFFECTS.** A strategy to minimise spray drift should be employed at all times when applying spray near aquatic environments.
**HARMFUL TO TERRESTRIAL VERTEBRATES.**
**DISPOSAL OF CONTAINER:** Triple rinse container and add residue to spray tank.
Return clean, empty container to an AgRecovery site for disposal.
Avoid contamination of any water supply with chemical or empty container.

AGRECOVERY
www.agrecovery.co.nz

**FIRST AID:** If medical advice is needed, have product container or label at hand. Absorb spillage to prevent material damage. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/ attention. Take off contaminated clothing and wash before re-use. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician. **Notes for medical personnel:** Administer either activated charcoal (100 g for adults or 2 g/kg body weight in children) or Fuller's Earth (15% solution; 1 litre for adults or 15mL/kg body weight in children). NOTE: the use of gastric lavage without administration of an adsorbent has not shown any clinical benefit. Eye contact: Severe damage may be caused by apparently trivial contact and healing may be delayed. Medical supervision should continue until complete healing has occurred.
**SPILLS:** Wear appropriate protective clothing and prevent material from entering waterways. Absorb spills with inert material and place in waste containers. Wash area with water and absorb with further inert material. Dispose of waste safely (such as to a suitable landfill).
**Batch No. and Manufacturing Date:** See on packaging
**Registered to and Distributed by:** Adria New Zealand Limited.
P.O. Box 535, 407 State Highway 16 Kumeu, Auckland.
Ph: 09 412 9817. Fax: 09 412 9807. www.adria.nz

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**Notice to Buyer.** Careful tests have proved that the product is suitable for the recommended purposes when used in accordance with our instructions. However, since storage and use of product are beyond our control, we do not therefore accept any liability for damage or loss of efficacy which may result from the use of this product, whether used in accordance with the directions or not. We are liable for a consistent quality of the product, but the risk of its storage and use is not borne by us.
**BEWARE: Apply this product carefully. Spray drift may cause serious damage to other desirable plants. A strategy to minimize spray drift should be employed at all times when applying spray near aquatic environments.**

**GENERAL INFORMATION:**
DIQUAT 200SL is a non - residual fast acting herbicide active on green plant tissues only. It is particularly effective in controlling most annual and many perennial broadleaf weeds, but clover will recover quickly. DIQUAT 200SL is inactivated on contact with soil.