



AGRISOURCE

HERBICIDE

# Dy-Quat<sup>®</sup> 200

A desiccant and contact herbicide for weed control in forestry and waterways, and as a desiccant in Barley, Green Beans, Lentils, Lucerne, Peas, Red and White Clover and for Potato Haulm destruction

Contains 200 g/L diquat as the dibromide salt in the form of a soluble concentrate

**DANGER**

Keep out of the reach of children

Net Contents **20 L**

GROUP

22

HERBICIDE



agrisource.co.nz



# READ LABEL COMPLETELY BEFORE USE



## DANGER

Harmful if swallowed. Toxic if inhaled. Causes skin irritation. Causes damage to organs through prolonged or repeated exposure. May be corrosive to metals.

## ECOTOXICITY

Very toxic to aquatic life and with long lasting effects. Harmful to terrestrial vertebrates.

## RECORD KEEPING

Where 3 kg or more of the substance is applied within 24 hours, in a place where the substance is likely to enter air or water and leave the application area, a PCBU with management or control of the substance must ensure that a written record is kept of each application of the substance. Refer to Part 4 Clause 48 of the Hazardous Substances (Hazardous Property Controls) notice 2017 for details of information that must be recorded.

## QUALIFICATIONS REQUIRED FOR APPLICATION OF CLASS 9 SUBSTANCES

Anyone who mixes, loads, or applies this product, either by air or ground based methods, is required to be suitably qualified, or must receive guidance and, if required, assistance from a suitably qualified person.

## HANDLING PRECAUTIONS - FOR WORKPLACE USE ONLY

**Personal Protection:** Avoid contact with eyes, skin or inhalation of spray mist. Use only outdoors or in a well-ventilated area. Wear eye protection and gloves. Do not eat, drink or smoke while using. Wash hands and face before meals and after work. When mixing or applying, wear appropriate personal protection including overalls, impervious, elbow-length gloves and eye protection. Wash hands and exposed skin before meals and after work. Wash and dry personal protective equipment before re-use.

**Equipment:** Apply using accurately calibrated and maintained equipment in accordance with the New Zealand Standard for the Management of Agrichemicals (NZS9409). Flush spray equipment thoroughly with water after use.

**Storage:** Keep out of reach of children. Store in original container tightly closed and in a locked dry, cool, well-ventilated area, away from food stuffs, seeds and fertilisers. Storage must be in accordance with the current version of the New Zealand Standard for the Management of Agrichemicals (NZS9409). Stores containing more than 100 L of **Dy-Quat 200** require signage, secondary containment and an emergency response plan.

**Shelf Life:** When stored appropriately this product should show no significant degradation from two years from the date of manufacture. Contact your supplier for further information about the use of any product that is older than this.

**Spillage:** Move non-essential people from the area. Wear appropriate protective clothing and prevent material from entering waterways. Absorb spills with inert material and place in waste containers. Sweep up solids without creating dust. Wash area with water and absorb with further inert material. Dispose of waste safely (such as to a suitable landfill).

**Product Disposal:** Ensure disposal of unwanted product is by intended use or by another operator strictly in accordance with label directions.

**Container Disposal:** Triple rinse container and add rinsate to spray tank. Dispose of cleaned container at your local AGRECOVERY container collection site.

**Transport:** DO NOT carry this product on a passenger service vehicle.

**Safety Data Sheet:** If additional hazard or safety information is required, refer to the Safety Data Sheet. For a copy visit our website at [www.agrisource.co.nz](http://www.agrisource.co.nz)

## FIRST AID

IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. IF SWALLOWED: Rinse Mouth. DO NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention. For advice call the National Poisons Centre 0800 Poison (0800 764 766) or a doctor immediately. If exposed or concerned: Get medical advice/attention. If medical advice is needed, have product container or label at hand.

## EMERGENCY RESPONSE

In a transport emergency call 111, Police or Fire Brigade

## GENERAL INFORMATION

**Dy-Quat 200** is a fast-acting contact herbicide that acts on the green parts of broadleaved plants by disrupting the photosynthetic process. It is inactivated through soil contact and therefore has no root activity on plants.

The addition of a non-ionic surfactant or Du-Wett® Superspreader is recommended for general weed control but not for use as a Potato Haulm desiccant or for Aquatic weed control when using subsurface injection methods of application.

It is an offence to use this product on animals.

## IMPORTANT - RESISTANCE MANAGEMENT

**Dy-Quat 200** is a bipyrindium GROUP 22 HERBICIDE. Excessive use of any herbicide may lead to the development of resistant weeds. Follow label directions and use in programmes with herbicides from a different action group. Consult <http://resistance.nzpps.org/> for alternate modes of action.

## MIXING

**Dy-Quat 200** may be inactivated if applied in water containing soil particles or other colloids. Use only clean water to apply. Half fill the spray tank, add the required amount **Dy-Quat 200** with agitation operating. Continue to fill the tank and add surfactants last, before the tank is full where these may be used.

## SPRAY DRIFT

Take all reasonable steps to ensure that **Dy-Quat 200** does not cause any significant adverse effects to the environment beyond the application area. Use this product carefully. Spray drift or equipment contamination may cause serious damage to desirable plants. Do not allow spray drift outside the target area to occur. Take all reasonable steps to ensure non-target terrestrial vertebrates are not adversely affected.

## AQUATIC WEED CONTROL (Submerged weeds) WEEDS CONTROLLED

Canadian pondweed.....Elodea canadensis  
Lagarosiphon.....Lagarosiphon major  
Pondweeds.....Potamogeton crispus & Potamogeton ochreatus  
Hornwort.....Ceratophyllum demersum<sup>1</sup>

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 and Peas.....7 Days

## CONDITIONS OF SUPPLY

All goods supplied by us are produced under rigid quality control procedures which assure the purchaser that at the time of sale they are physically suitable for use in the manner stated. However, to the extent permitted by law, buyers and/or users of the goods accept that neither the manufacturer, Agri Solutions Ltd as registrant, nor any other distributor have any liability or responsibility whatsoever for any loss, damage or injury whether in contract or tort, whether direct, indirect or consequential howsoever arising in connection with the supply of these goods.

## RECOMMENDATIONS

### WATERWAYS

SITUATION	RATE	COMMENTS
Lakes and Ponds	<b>Boom/Trailing hose</b> 30 L per surface hectare. <b>Handgun</b> 2 L/100 L of water applied at 1.5 L of spray mix per 10M <sup>2</sup>	Ensure even application by mixing with sufficient water to spread the product over the area to be treated. May be applied with boom spray equipment – boat or aerial. May also be applied sub surface by use of trailing dropper nozzles. For aerial application, a non-ionic surfactant may be used. The addition of Aqua Gel should be considered when treating submerged weed masses to maintain a herbicidal concentration within the weed mass.
Drains and waterways	30 L per surface hectare <sup>2</sup>	Gun spray or apply with trailing nozzles. Application in an upstream direction is recommended. DO NOT APPLY in waterways where the flow rate is greater than 30 cm/sec – 1 kph.

1. Must not be applied from a fixed point.
2. DO NOT allow bathing, water take for human consumption, fish farming or livestock watering for 24 hours after application is complete.
3. DO NOT apply to more than 25% at any one time in any standing water body to maintain oxygen supply for aquatic species.
4. 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.
5. **Dy-Quat 200** is not active in turbid, muddy water or in water with more than 1 ppm organic matter.
6. Treatment is best when water levels are at their lowest and temperatures are high.

### FORESTRY

SITUATION	RATE	COMMENTS
Wilding Pine Control	3 - 10 L/ha	For use in mixtures to aid in the desiccation of Wilding Pine.

### POTATOES

SITUATION	RATE	COMMENTS
Haulm Desiccation Very Dense Haulms	<b>4-6 L/ha make two applications 7-10 days apart in 600-1100 L of water hectare:</b> <b>1st application</b> 3-4 L/ha <b>2nd application</b> 1.5-3 L/ha <b>or</b> A single application of 4-6 L in 900-1100 L of water/ha as a single pass	<b>Dy-Quat 200</b> should be applied about 14 days before proposed harvest date. Leaf kill following application is rapid, usually about 4 days, but stem kill will take up to 14 days, depending on factors such as haulm density and weather conditions following treatment. <b>Dy-Quat 200</b> kills more rapidly under bright sunny weather. If hardened top growth is present on plants to be treated, the split application is preferable for best results.
Moderate to sparse haulms	3-4 L/ha Apply in 600-1100 L of water/ha	Apply as a single application.
Pre-Digging broad leaved weed control	1.5-4 L/ha Apply in 350-450 L of water/ha	Weeds may become a problem when harvesting has been postponed, making harvesting difficult. For broadleaved weed control apply with Activett spreader at 25 mL/100 L

1. **Dy-Quat 200** is not recommended for use on Rua variety of Potatoes.
2. The rate of **Dy-Quat 200** required will be governed by the density and vigour of haulms present at the time of desiccation. Vigorous varieties such as Sebago and Tahi may require two applications applied at 7-10 days apart to ensure complete spray penetration.
3. Avoid application to Potato haulms when heavily laden with early morning dew. Spraying under these conditions will lead to excessive run off, poor spray retention and poor haulm destruction.
4. During prolonged dry conditions, tuber damage may occur. DO NOT spray when soil is very dry.
5. Do not use a wetting agent with **Dy-Quat 200** for haulm desiccation.

### CROP DESICCATION

CROP	SITUATION	RATE	COMMENTS
Barley, Wheat, Oats <sup>3</sup>	To desiccate weeds in a fully mature crop to aid in a clean bulk harvest	3-4 L/ha in 350 L of water	Apply to a mature crop in sufficient water to obtain coverage of the weeds. Add Activett at 25mL/100 L
Green Beans, Lentils, Peas and Soya Beans grown for seed	Crop and weed desiccation	3-4 L/ha in 350 L of water	Apply 7 days prior to harvest when seeds are fully developed and pods are drying. Add Activett at 25mL/100 L
Lucerne, Red and White Clover seed crops	To assist with harvest by halting further crop growth once the main seed set has matured.	3-4 L/ha in 300-350 L of water	Apply as soon as the seed from the main flowering has matured. Add Activett at 25mL/100 L

<sup>1</sup> Hornwort (Ceratophyllum demersum) often grows in turbid water where **Dy-Quat 200** is much less active. Use of Aquathol® is recommended in these situations.

<sup>2</sup> Only recommended for submerged broadleaved weeds. For drain banks use an alternative product such as paraquat or glyphosate

<sup>3</sup> Treated Oat crops may not be used for human consumption.