



AGRISOURCE

HERBICIDE

Dy-Quat[®] 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/litre diquat as the dibromide salt in the form of a soluble concentrate

DANGER

Keep out of the reach of children

Net Contents **20 LITRES**

GROUP

D

HERBICIDE



agrisource.co.nz



READ LABEL COMPLETELY BEFORE USE

HSNO CLASSIFICATIONS

Acute inhalation toxicity Cat. 3, Acute oral toxicity Cat. 2, Skin irritation Cat. 2, STOT RE Cat. 1, Corrosive to metals Cat. 1, Hazardous to the aquatic environment acute chronic Cat. 1, Hazardous to terrestrial vertebrates.

RECORD KEEPING

A written record of use must be kept if 3kg or more are applied in 24 hours, in a place where the substance is likely to enter air or water and leave the application area.

QUALIFICATIONS REQUIRED FOR USE OF CLASS 9 PRODUCTS

Anyone who mixes, loads, or applies this product, either by air or ground based methods, is required to be suitably qualified. Refer to Schedule 10 of the Hazardous Substances (Hazardous Property Controls) notice 2017 for a list of suitable qualifications.



DANGER

TOXIC

Toxic if swallowed, inhaled or absorbed through the skin. May cause skin irritation. Causes damage to lungs and eyes from repeated exposure. May be corrosive to metals.

ECOTOXIC

Very toxic to aquatic organisms. Harmful to terrestrial vertebrates.

DO NOT carry on a passenger service vehicle.

HANDLING PRECAUTIONS

Avoid contamination of any water supply with product or empty container. Avoid spray drift onto desirable plants. Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area. Collect spillage. Do not apply directly onto or into water unless per label instructions. Application, storage and record keeping should be as described in the Management of Agrichemicals NZS8409.

Personal Protection: When mixing or applying, avoid contact with eyes and skin and inhalation of the spray mist. Use only outdoors or in a well-ventilated area. Wear protective gloves, protective clothing and face and eye protection. Wash hands and face thoroughly after handling. Do not eat drink or smoke when using this product.

Wash hands, face and exposed skin before meals and after work.

Equipment: Apply with well-maintained and calibrated spray equipment.

Cleaning: Flush spray equipment thoroughly with clean water after use.

Storage: This product must be securely stored if left unattended. Keep only in original container tightly closed and in a locked, dry, cool, well ventilated area, away from feed, seeds and foodstuffs. Storage of more than 100 litres of this product requires bunding and signage. See the Safety Data Sheet for further information.

Shelf Life: When stored appropriately this product should show no significant degradation for 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: In the event of spillage, keep people away. Collect spills by absorbing with soil, clay, sawdust or other absorbent material. Clay and soil will deactivate DY-QUAT 200. Place sweepings into a sealable drum and label. Dispose of sweepings safely and in accordance with local regional requirements. Wear overalls, gloves and rubber boots when cleaning up spills. In the case of a major spillage, contact the Fire Service and local regional and health authorities.

Product Disposal: Dispose of this product only by using according to the label, or at an approved landfill or other approved facility.

Container Disposal: Ensure the container is empty. Triple rinse container and add residue to spray tank. Recycle through the Agrecovery Scheme or, if this is not possible, bury in landfill.

Beware: Apply this product carefully. Spray drift may cause serious damage to desirable plants.

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.agrsource.co.nz

FIRST AID

If swallowed Rinse mouth. DO NOT induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell. **If inhaled** Remove to fresh air and keep at rest in a position comfortable for breathing. **If skin or hair contact occurs** remove contaminated clothing and flush skin and hair with running water. **DO NOT SCRUB THE SKIN. If concentrate is splashed in the eyes** flush with running water for at least 15 minutes. If skin or eye irritation occurs: Get medical advice/ attention. If exposed, call the National Poisons Centre 0800 Poison (0800 764 766) or a doctor immediately. 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 bipyridium GROUP 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.

AQUATIC WEED CONTROL (Submerged weeds) WEEDS CONTROLLED

Canadian pondweed *Elodea canadensis*
Lagarosiphon *Lagarosiphon major*
Pondweeds *Potamogeton crispus* & *Potamogeton ochreatus*
Hornwort *Ceratophyllum demersum* ¹

WITHHOLDING PERIODS

Beans, Lentils and Peas 7 Days

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

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.

WATERWAYS

SITUATION	RATE	COMMENTS
Lakes and Ponds	Boom/Trailing hose 30 litres per surface hectare. Handgun 2 litres/100 litres of water applied at 1.5 litres of spray mix per 10M ²	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 litres per surface hectare ²	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 1ppm 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 Litres/ha	For use in mixtures to aid in the desiccation of Wilding Pine.

POTATOES

SITUATION	RATE	COMMENTS
Haulm Desiccation Very Dense Haulms	4-6 litres/ha make two applications 7-10 days apart in 600-1100 litres of water hectare: 1st application 3-4 litres/ha 2nd application 1.5-3 litres/ha or A single application of 4-6 litres in 900-1100 litres of water/ha as a single pass	Dy-Quat 200 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. Dy-Quat 200 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 litres/ha Apply in 600-1100 litres of water/ha	Apply as a single application.
Pre-Digging broad leaved weed control	1.5-4 litres/ha Apply in 350-450 litres 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 litres.

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 Tahiti 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 ³	To desiccate weeds in a fully mature crop to aid in a clean bulk harvest	3-4 litres/ha in 350 litres of water	Apply to a mature crop in sufficient water to obtain coverage of the weeds. Add Activett at 25ml/100 litres.
Green Beans, Lentils, Peas and Soya Beans grown for seed	Crop and weed desiccation	3-4 litres/ha in 350 litres of water	Apply 7 days prior to harvest when seeds are fully developed and pods are drying. Add Activett at 25ml/100 litres.
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 litres/ha in 300-350 litres of water	Apply as soon as the seed from the main flowering has matured. Add Activett at 25ml/100 litres.

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

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

³ Treated Oat crops may not be used for human consumption.

**CORROSIVE, LIQUID, TOXIC, N.O.S.(diquat)
MARINE POLLUTANT
PACKING GROUP III
UN 1760
HAZCHEM 2X**



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BATCH NO:

DATE OF
MANUFACTURE:

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**24 HOUR EMERGENCY RESPONSE
0800 CHEMCALL (0800 243 622)**