

D-Quat®

Contains 200 g/l (16.7% w/w) diquat as the dibromide salt in a soluble concentrate

MAPP No. 14833

For the desiccation of potato haulm prior to harvest.

HARMFUL IF SWALLOWED

VERY TOXIC BY INHALATION

IRRITATING TO RESPIRATORY SYSTEM

IRRITATING TO SKIN

MAY CAUSE SENSITISATION BY SKIN CONTACT

DANGER OF SERIOUS DAMAGE TO HEALTH BY PROLONGED EXPOSURE

VERY TOXIC TO AQUATIC ORGANISMS

MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT

SAFETY PRECAUTIONS

OPERATOR PROTECTION

Engineering control of operator exposure must be used where reasonably practicable in addition to the following personal protective equipment:

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES when handling the concentrate and contaminated surfaces.

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) when applying by vehicle-mounted equipment. However, engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection. TAKE OFF IMMEDIATELY all contaminated clothing.

WASH ALL PROTECTIVE CLOTHING thoroughly after use, especially the insides of gloves.

WASH CONCENTRATE from skin or eyes immediately. WHEN USING DO NOT EAT, DRINK OR SMOKE. DO NOT BREATHE SPRAY.

IN CASE OF INSUFFICIENT VENTILATION WEAR SUITABLE RESPIRATORY EQUIPMENT.

WASH HANDS AND EXPOSED SKIN before eating and drinking and after work.

IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL, seek medical advice immediately (show the label where possible).

Environmental protection

Do not contaminate water with the product or its container. Do not clean application equipment near surface water. Avoid contamination via drains from farmyards and roads. HARMFUL TO LIVESTOCK. Keep all livestock out of treated areas for at least 24 hours after treatment.

DO NOT USE TREATED STRAW OR HAULM AS ANIMAL FEED OR BEDDING for at least 4 days after last application.

Storage and disposal

KEEP LOCKED UP AND OUT OF THE REACH OF CHILDREN. KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS.

KEEP IN ORIGINAL CONTAINER, tightly closed, in a safe place. This material and its container must be disposed of in a safe way.

Use appropriate containment to avoid environmental contamination. DO NOT RE-USE CONTAINER for any purpose. RINSE CONTAINER THOROUGHLY by using an integrated pressure rinsing device or manually rinsing three times. Add washings to sprayer at time of filling and dispose of the container safely.

To avoid risks to man and the environment, comply with the instructions for use. Safety data sheet available for professional user on request.

The Control of Substances Hazardous to Health Regulations (COSHH) may apply to the use of the product at work.

This product is approved under the Plant Protection Products Regulations (as amended).

PROTECT FROM FROST

Contains diquat; may produce an allergic reaction



VERY TOXIC



DANGEROUS FOR THE ENVIRONMENT

IMPORTANT INFORMATION

FOR USE ONLY AS AN AGRICULTURAL DESICCANT

See Statutory Area on attached leaflet for the following:

Crop or situation, Maximum individual dose of product, Maximum total dose of product per crop, Maximum number of treatments, Latest time of application, Other Specific Restrictions

READ THE LABEL BEFORE USE. USING THIS PRODUCT IN A MANNER THAT IS INCONSISTENT WITH THE LABEL MAY BE AN OFFENCE. FOLLOW THE CODE OF PRACTICE FOR USING PLANT PROTECTION PRODUCTS.

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IMPORTANT INFORMATION

FOR USE ONLY AS AN AGRICULTURAL DESICCANT				
<u>Crop or situation</u>	<u>Maximum individual dose of product</u>	<u>Maximum total dose of product per crop</u>	<u>Maximum number of treatments</u>	<u>Latest time of application</u>
Potato	4 l/ha	5 l/ha	-	-
Other specific restrictions This product must not be applied through ultra low volume (ULVA) or mistblower equipment.				
READ THE LABEL BEFORE USE. USING THIS PRODUCT IN A MANNER THAT IS INCONSISTENT WITH THE LABEL MAY BE AN OFFENCE. FOLLOW THE CODE OF PRACTICE FOR USING PLANT PROTECTION PRODUCTS.				

DIRECTIONS FOR USE

IMPORTANT: This information is approved as part of the Product Label. All instructions within this section must be read carefully in order to obtain safe and successful use of this product.

DESICCATION OF POTATO HAULM

Cultural considerations	Desiccate the haulm when the tubers have grown to the required size or upon other management criteria being reached. Pre-harvest interval Wait at least 14 days after completion of spraying before lifting to allow the skins to set, most particularly if blight is present. See SOIL MOISTURE See POTATO VARIETIES
Time of application & spraying recommendations	Desiccate the haulm employing either a single spray or two sprays 5-7 days apart. The two spray method may be preferred when the haulm and/or weed growth is dense. Achieve good spray cover of haulm and weeds by ensuring accurate spraying machine set-up and by employing a spray volume matched to the density of the vegetation. Ideally spray under bright conditions with low humidity. DO NOT apply at ultra low volume or with an atomizer Single spray Spray evenly over the crop and weeds when all conditions are judged suitable. Two spray method Apply the first spray when all conditions are judged suitable with the aim of causing substantial dieback of the haulm. Use a higher dose where the crop is more vigorous or has yet to start senescing. Apply the second spray about 5-7 days after the first spray when substantial haulm dieback should have occurred thus allowing more complete penetration of the second spray to the lower stem surfaces.
Rate of application	DO NOT add any wetting agent or other adjuvant to any spray <u>Single spray</u> 4 litres in 200-400 litres water/ha. <u>Two spray method</u> The total dose must not exceed 5 l/ha. First spray 1-2 litres in at least 200 litres water/ha. Second spray 2-4 litres in at least 200 litres water/ha. The total dose must not exceed 5 L/ha per year

SOIL MOISTURE

Desiccation of potatoes whilst under moisture stress may cause tuber damage primarily observed as a brown staining of the vascular ring, commonly referred to as "ringing", just below the skin.

MORECS is the Meteorological Office Rainfall and Evaporation Calculation System and should be used to identify periods of high risk. MORECS gives a calculated Soil Moisture Defecit (SMD).

Barclay D-Quat MUST NOT be applied with Soil Moisture Deficits (SMD) in excess of those in the following table unless the specified amounts of rain or irrigation have been received or applied within the specified time scale.

Soil Texture (85 System)	Minimum Rain or Irrigation requirement	OR Maximum Permissible Soil Moisture Deficit		
		Early or seed crop	Canning crop	Ware crop*
Sands Very light soils Light soils All stony soils (including stony medium and stony heavy soils)	13 mm within 2 days before spraying. Soil must be moist at tuber depth.	32 mm	Do not use.	50 mm
Medium soils Heavy soils	13 mm within 5 days before spraying. Soil must be moist at tuber depth.	50 mm	Do not use.	64 mm
Organic soils (>10% OM) Peaty soils Peats Peaty loams	13 mm within 5 days before spraying. Soil must be moist at tuber depth	64 mm	50 mm	83 mm

* If ware crops are immature or show excess vigour at the time of spraying, treat them as though an Early/Seed Crop.

Before any or each application of Barclay D-Quat all areas of the field must be physically examined and the soil must be judged as moist before the treatment may be applied. The soil may be judged moist and the crop suitable for treatment if the soil within 5 cm of all tubers, including the deepest tubers, is moist. Seek professional advice in cases of doubt.

POTATO VARIETIES

The haulm of all varieties of potato may be desiccated with Barclay D-Quat, but it is important to ensure that the conditions specified under SOIL MOISTURE are followed when treating any variety, especially the less drought tolerant varieties. Varieties in the NIAB listings of potato varieties with a drought tolerance rating of 5 or below are at most risk of vascular discoloration.

WEATHER

DO NOT spray if light rain, mist or heavy dew is present or expected as this may cause crop damage. Best results are achieved from spraying on a bright day when the humidity is low.

Barclay D-Quat is rainfast within 15 minutes of application; rainfall after this period will not reduce crop desiccation.

MIXING

Half fill the spray tank with clean water and start the re-circulation system. Pour the required quantity of Barclay D-Quat into the spray tank. Top up the spray tank with more clean water to the required level. Agitate thoroughly before use.

USE OF WETTERS OR OTHER ADJUVANTS

DO NOT add a wetter or other adjuvant for desiccation of potato haulm.

This product is to be used only in accordance with the Directions for Use and instructions given on the label provided with this pack. Use in any other circumstances is entirely at user's risk.

APPLICATION (BCPC definitions)

Apply as a MEDIUM spray at 2-3 bar (30-45 psi) by conventional hydraulic ground-operated sprayer. Avoid spray drift. Do not leave mixed spray in the spray tank for long periods e.g. over mealtimes.

WEED RESISTANCE

Diquat is a bipyridilium group herbicide. Strains of annual meadow-grass and American willowherb resistant to bipyridilium herbicides have been found in top and soft fruit orchards. Barclay D-Quat may not give full control of these weeds where such resistant strains of weeds occur.

CARE OF SPRAYER

Immediately after each days use with Barclay D-Quat, wash out the sprayer thoroughly with clean water and a wetting agent (recommended for the cleaning of sprayers) according to standard cleaning procedures.