

# CLAYTON

PLANT PROTECTION

## CLAYTON DIQUAT 200

## SAFETY DATA SHEET

### 1. IDENTIFICATION OF SUBSTANCE

Clayton Diquat 200 MAPP 13942  
For use only as an agricultural/horticultural herbicide/desiccant.

#### Marketing company

Clayton Plant Protection (UK) Ltd.,  
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### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Diquat dibromide 374 g/l CA 85-00-7 T+, N R 22, 26, 48/25, 36/37/38, 43, 50/53

### 3. HAZARDS IDENTIFICATION

Human: Ingestion -Toxic: danger of serious damage to health by prolonged exposure in contact with skin and if swallowed  
Skin - low toxicity for short exposures; irritant; may cause sensitisation  
Eyes – irritant  
Inhalation – toxic; irritant  
Environmental Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

### 4. FIRST AID

**Eyes:** flush immediately with plenty of water for 15 minutes. Seek medical attention immediately.  
**Skin:** remove all contaminated clothing. Wash exposed skin and hair immediately with water, then with soap and water. Seek medical attention immediately.  
**Inhalation:** remove to fresh air. Seek medical attention immediately if inhalation is suspected. Note: diquat is non-volatile and therefore exposure via this route is unlikely during normal handling and use.  
**If swallowed:** do not induce vomiting; give water to rinse mouth; keep patient at rest; seek medical attention *immediately* and show the container label or this datasheet.  
**Guide to doctor:** give stomach washout and test urine and gastric aspirate for diquat. Purge gastro-intestinal tract immediately with a 15% suspension of Fuller's Earth and 200 ml of 20% mannitol in water. Contact Poisons Information Centre for advice on further treatment.

### 5. FIRE FIGHTING

Wear full protective clothing, goggles and respirator. Call fire brigade for all but small, immediately controllable fires. Product is not flammable, but packaging will burn. Do not breathe smoke. Toxic fumes may be released. Keep containers cool by spraying with water. Extinguish source of fire, preferably with dry inert powder, foam, carbon dioxide or water fog. Do not use a water jet. Contain fire-fighting water, bunding as necessary.

### 6. ACCIDENTAL RELEASE

Wear overall, face protection, rubber boots and suitable protective gloves as appropriate to the situation. Keep unprotected persons and animals away. Prevent contamination of water. Inform local water plc immediately if product enters drains. Inform Environment Agency/Scottish Environment Protection Agency if product enters surface or ground waters. Absorb spillage with sand or other inert material. Collect up all contaminated material and place in covered, labelled containers for disposal. Do not flush with water.

### 7. HANDLING AND STORAGE

Keep away from food, drink and animal feeding stuffs. Keep out of reach of children. Keep in original container, tightly closed, in a safe place. Store in a cool, dry, place out of direct sunlight. Protect from frost.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Wear suitable protective gloves and face protection (faceshield) when handling the concentrate. Wash concentrate from skin or eyes immediately. When using do not eat, drink or smoke.

Do not breathe spray. Wash hands and exposed skin before meals and after work.

Occupational exposure standards: long-term exposure limit (8-hour TWA ref. period) = 0.5 mg m<sup>-3</sup>  
short-term exposure limit (15-minute ref. period) = 1 mg m<sup>-3</sup>

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: brown liquid concentrate  
Odour: none  
Flash point: not flammable  
Vapour pressure: < 0.013 mPa at 20°C (diquat dibromide)  
Relative density: 1.16 at 20°C  
pH (concentrate): 4.4  
Water solubility: product is fully soluble/miscible with water

## 10. STABILITY AND REACTIVITY

Stable in packaging and in air at ordinary temperatures. Keep in original packaging. Corrosive to aluminium and mild steel.

## 11. TOXICOLOGY

Acute oral LD<sub>50</sub> for female rat: c. 550 mg/kg  
Acute dermal LD<sub>50</sub> for rat: >2000 mg/kg  
Inhalation LC<sub>50</sub> (4-hr) rat: 0.64 mg per litre air  
Nose bleed and throat soreness might occur.  
Eye irritation for rabbit: Mild irritant  
Skin irritation for rabbit: Moderate irritant

## 12. ECOLOGICAL INFORMATION

In soil: Rapidly bound and deactivated.  
LC<sub>50</sub> (96-hour) for rainbow trout: >100 mg per litre  
LC<sub>50</sub> (48-hr) *Daphnia magna*: 7 mg per litre  
EC<sub>50</sub> (72-hour) green algae: 66 µg per litre

## 13. DISPOSAL

Product: dispose of via an authorised disposal contractor.  
Containers: dispose of via an authorised disposal contractor. Consult also 'Pesticides: Code of Practice for the Safe Use of Pesticides on Farms and Holdings' (DEFRA/HSE).

## 14. ROAD AND RAIL TRANSPORT

CORROSIVE LIQUID, N.O.S., (contains diquat dibromide)  
UN 1760, Class 8, Packing Group III

## 15. REGULATORY INFORMATION



**TOXIC**

contains 374 g/l diquat dibromide  
R22 Harmful if swallowed  
R23 Toxic by inhalation  
R36/37/38 Irritating to eyes, respiratory system and skin  
R43 May cause sensitisation by skin contact  
R48/25 Toxic: danger of serious damage to health by prolonged exposure if swallowed



**N DANGEROUS FOR THE ENVIRONMENT**

R50/R53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

S2 Keep out of the reach of children.  
S13 Keep away from food, drink and animal feedingstuffs.  
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.  
S45 In case of accident or if you feel unwell seek medical advice immediately (show the label where possible).  
S35 This material and its container must be disposed of in a safe way.

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

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

## 16. OTHER INFORMATION

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