

# CLAYTON

PLANT PROTECTION

## CLAYTON MEPIQUAT

## SAFETY DATA SHEET

### 1. IDENTIFICATION OF SUBSTANCE

Clayton Mepiquat MAPP 12360  
For use only as an agricultural plant growth regulator.

#### Marketing company

Clayton Plant Protection (UK) Ltd.,  
Unit F10, Bracetown Business Park, Clonee, Co. Meath, Ireland.  
Tel: (00 353) 1 8210127 Fax: (00 353) 1 8217747

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Mepiquat chloride	28 % w/w	CA 24307-26-4	Xn	R 22, 52/53
2-chloroethylphosphonic acid	14.2 % w/w	CA 16672-87-0	Xn, C	R 20/21, 34, 52/53

### 3. HAZARDS IDENTIFICATION

2-chloroethylphosphonic acid is an anticholinesterase organophosphorus compound. DO NOT USE if under medical advice NOT to work with such compounds.

Human	Ingestion: harmful if swallowed Eyes: risk of serious damage Inhalation: irritant
Environmental	Harmful 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 advice.

**Skin:** remove all contaminated clothing. Wash exposed skin and hair immediately with water, then with soap and water. If the patient feels unwell, seek medical advice.

**Inhalation:** remove to fresh air; seek medical attention if inhalation is suspected.

**If swallowed:** do not induce vomiting; wash mouth with water; seek medical attention and show the container label or this datasheet.

National Poisons Information Service -Tel: 0870 600 6266

### 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 coverall, face protection, rubber boots and suitable protective gloves as appropriate to the situation. 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. Protect from frost.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Wear suitable protective gloves and face protection (faceshield) when handling the concentrate

When using do not eat, drink or smoke.

Do not breathe spray.

Wash hands and exposed skin before meals and after work.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: greyish, clear to hazy liquid  
Odour: faint, sweet  
Flash point: not flammable  
Oxidising properties: none  
Density: 1.09 g cm<sup>-3</sup> at 20°C  
pH of product: 1.5 – 3.0  
Water solubility: miscible in all proportions

## 10. STABILITY AND REACTIVITY

Stable in packaging and in air at ordinary temperatures. Corrosive to aluminium.

## 11. TOXICOLOGY

Acute oral LD<sub>50</sub> for rat: >500 - <2000 mg/kg  
Acute dermal LD<sub>50</sub> for rat: > 2000 mg/kg  
Acute inhalation LC<sub>50</sub> > 13.3 mg/litre air; irritant  
Skin irritation: irritant  
Eye irritation: irritant  
Skin sensitisation: negative

## 12. ECOLOGICAL INFORMATION

LC<sub>50</sub> (96-hour) for carp: 2500 mg/litre  
Daphnia LC<sub>50</sub> (48-hour): 123 mg/l

## 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, ACIDIC, ORGANIC, N.O.S. (contains 2-chloroethylphosphonic acid).  
UN 3265, Class 8; Packing Group III. Corrosive to aluminium.  
Packaging: 1-5 litres in high-density polyethylene containers.

## 15. REGULATORY INFORMATION



Xn HARMFUL

contains 305 g/l mepiquat chloride and 155 g/l 2-chloroethylphosphonic acid

R22 Harmful if swallowed  
R37 Irritating to respiratory system  
R41 Risk of serious damage to eyes

R52/R53 Harmful 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.  
S37/39 Wear suitable gloves and eye/face protection  
S35 This material and its container must be disposed of in a safe way.  
S46 If swallowed, seek medical advice immediately and show this container or label

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 Control of Pesticides Regulations 1986.

## 16. OTHER INFORMATION

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