

# CLAYTON

PLANT PROTECTION

## CLAYTON KRYPTON MZ

## SAFETY DATA SHEET

### 1. IDENTIFICATION OF SUBSTANCE

Clayton Krypton MZ MAPP 14010  
For use only as an agricultural fungicide.

### Marketing company

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

Cymoxanil	4.5 % w/w	CA 57966-95-7	Xn, N	R 22, 43, 50/53
Mancozeb	68 % w/w	CA 8018-01-7	Xi, N	R 37, 43, 50/53

### 3. HAZARDS IDENTIFICATION

Human	Skin:	irritant; may cause sensitisation
	Eyes:	irritant
	Inhalation:	irritant
Environmental	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment	

### 4. FIRST AID

Remove all contaminated clothing.  
Eyes: flush immediately with plenty of water for 15 minutes. Seek medical attention.  
Skin: wash exposed skin and hair immediately with water, then with soap and water. If the patient feels unwell, seek medical advice.  
Inhalation: remove patient to fresh air; seek medical attention.  
If swallowed: wash mouth with water; seek medical attention and show the container label or this datasheet. Treat symptomatically.

### 5. FIRE FIGHTING

Wear full protective clothing, goggles and respirator. Call fire brigade for all but small, immediately controllable fires. Product and packaging will burn. 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. Contain spillage, particularly to prevent contamination of water. Inform local water plc immediately if spillage enters drains. Inform Environment Agency/Scottish Environment Protection Agency if spillage enters surface or ground waters. Collect up/sweep 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 above 5°C and below 49°C. Keep away from fire or sparks.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Wear suitable protective gloves and face protection (faceshield) when handling the concentrate.  
Wash concentrate from skin or eyes immediately. Do not breathe dust or spray.  
When using do not eat, drink or smoke.  
Wash hands and exposed skin before eating and drinking and after work.  
Occupational exposure standards:  
Mancozeb (for manganese compounds as Mn):  
long-term exposure limit (8 hour TWA ref. period) = 5 mg m<sup>-3</sup>  
short-term exposure limit (10-minute ref. period) = not determined



## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: grey-yellow powder  
Flammability: not classified as flammable  
Flash point: circa 140°C for mancozeb  
Oxidising properties: none  
pH (1% w/w in water): 6.1  
Water solubility: slightly soluble; readily disperses in water

## 10. STABILITY AND REACTIVITY

Stable in packaging and in air at ordinary temperatures over the short-term. Slowly decomposed by heat and moisture. Product allowed to become wet or exposed to moist air may create a flammable vapour hazard of carbon disulphide. Do not carry over opened packs from one season to the next.

## 11. TOXICOLOGY

Acute oral LD <sub>50</sub> for rat:	>2000 mg/kg
Acute dermal LD <sub>50</sub> for rat:	>2000 mg/kg
Acute inhalation LC <sub>50</sub> (4 hour) for rat	>5.06 mg/ cymoxanil per litre air >5.14 mg/ mancozeb per litre air
Skin irritation:	Irritant
Eye irritation:	Irritant
Respiratory effect:	Irritant
Skin sensitisation:	Positive

## 12. ECOLOGICAL INFORMATION

LC <sub>50</sub> (96 hour) for bluegill sunfish	29 mg cymoxanil/litre 1.63 mg mancozeb/litre
Daphnia LC <sub>50</sub> (48-hour)	27 mg cymoxanil/litre 1.3 mg mancozeb/litre
Algae EC <sub>50</sub> (72-hour)	0.35 mg cymoxanil/litre 0.43mg mancozeb/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

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains mancozeb).  
UN 3077; Class 9; Packaging group III

## 15. REGULATORY INFORMATION



Xi IRRITANT

contains 4.5 % w/w cymoxanil and 68 % w/w mancozeb

R36/37/38 Irritating to eyes, respiratory system and skin  
R43 May cause sensitisation by skin contact



N DANGEROUS FOR  
THE ENVIRONMENT

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

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 Control of Pesticides Regulations 1986.

## 16. OTHER INFORMATION

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