

# CLAYTON

PLANT PROTECTION

## CLAYTON VINDICATE

## SAFETY DATA SHEET

### 1. IDENTIFICATION OF SUBSTANCE

Clayton Vindicate MAPP 15055  
For use only as an agricultural/horticultural insecticide.

#### Marketing company

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

Esfenvalerate	2.5 % w/v	CA 66230-04-4	T, N	R 23/25, 43, 50/53
Emulsifier	10 % w/v	-	Xi	R 10, 41
Xylene	85-90 % w/v	CA 1330-20-7	Xn	R 10, 20/21, 38

### 3. HAZARDS IDENTIFICATION

Human	Ingestion:	harmful
	Skin:	may cause sensitisation
	Eyes:	risk of serious damage
	Inhalation:	harmful
Environmental	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.	
Physical	Flammable	

### 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 feeling unwell, seek medical advice.

**Inhalation:** remove to fresh air; prevent all exertion; seek medical attention.

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

### 5. FIRE FIGHTING

Wear full protective clothing, goggles and respirator. Call fire brigade for all but small, immediately controllable fires. Remove all sources of ignition. Keep bystanders and animals away. Toxic fumes may be released on heating. Do not breathe smoke. 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 full protective clothing and a respirator. 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 in sand. 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. Keep away from all sources of ignition. Store in a cool, well-ventilated, dry place out of direct sunlight. Protect from frost.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Wear suitable protective clothing (coveralls), suitable protective gloves and face protection (faceshield) when handling the concentrate.

Avoid contact with skin. Do not breathe spray/fumes. Take off immediately all contaminated clothing.

Wash concentrate from skin or eyes immediately. When using do not eat, drink or smoke.

Wash hands and exposed skin before meals and after work. If you feel unwell, seek medical advice (show label where possible).

Occupational exposure standards: xylene

Long-term exposure limit (8-hour TWA ref. period) = 220 mg m<sup>-3</sup> or 50 ppm

Short-term exposure limit (15-minute ref. period) = 441 mg m<sup>-3</sup> or 100 ppm



## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: clear liquid  
Colour: pale amber  
Flammability: flammable  
Flash point: 27°C  
Explosive properties: may form explosive mixtures with air  
Explosive limits: 1.1 – 6.1 % v/v (xylene)  
Density: 0.894 g/ml at 20°C  
pH: 5.2 (1 % v/v in water)  
Water solubility: miscible in all proportions to form an emulsion

## 10. STABILITY AND REACTIVITY

Stable in packaging at ordinary temperatures. Keep in original packaging.

## 11. TOXICOLOGY

Acute oral LD<sub>50</sub> for rat: 436 mg/kg  
Acute dermal LD<sub>50</sub> for rat: >2000 mg/kg  
Acute inhalation LC<sub>50</sub> (4-hour) rat: 4.8 mg/litre air  
Skin irritation: Moderately irritating  
Eye irritation: Severe irritant  
Skin sensitisation: Positive

## 12. ECOLOGICAL INFORMATION

Data for a 5 % emulsifiable concentrate  
LC<sub>50</sub> (96 hour) for rainbow trout 4.5 µg/l  
Daphnia LC<sub>50</sub> (48-hour) 3.4 µg/l  
Algae EC<sub>50</sub> (96-hour) 0.135 mg/l  
Bees, contact LD<sub>50</sub> (24-hour) 0.07 µg a.i. per bee

## 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

FLAMMABLE LIQUID, N.O.S. (contains xylene and esfenvalerate)  
UN 1993 Class 3 Packing group II

## 15. REGULATORY INFORMATION



**HARMFUL**



**N DANGEROUS FOR  
THE ENVIRONMENT**

contains 25 g/l esfenvalerate with xylene  
R10 Flammable  
R20/22 Harmful by inhalation and if swallowed  
R41 Risk of serious damage to eyes  
R43 May cause sensitisation by skin contact

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.  
S16 Keep away from sources of ignition - No smoking.  
S23 Do not breathe vapour/spray.  
S24/25 Avoid contact with skin and eyes.  
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection  
S38 In case of insufficient ventilation wear suitable respiratory equipment.  
S60 This material and its container must be disposed of as hazardous waste.

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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