

# CLAYTON

PLANT PROTECTION

## CLAYTON ORLEANS

## SAFETY DATA SHEET

### 1. IDENTIFICATION OF SUBSTANCE AND COMPANY

Clayton Orleans MAPP 14452  
For use only as an agricultural/horticultural/forestry herbicide.

Clayton Plant Protection (UK) Ltd.  
Unit F10, Bracetown Business Park, Clonee, Co. Meath, Ireland.  
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### 2. COMPOSITION AND INFORMATION ON INGREDIENTS

Propaquizafop	9.7 % w/w	CA 111479-05-1	N, Xi	R 43, 50/53
N-Methyl-2-pyrrolidone	5-10 % w/w	CA 872-50-4	T, Xi	R 36/37, 38, 61
Poly(oxy-1,2-ethanediyl),alpha-isotridecyl-omega-hydroxy-	30-40 % w/w	CA 9043-30-5	Xn	R 22, 36
Solvent naphtha, heavy aromatic	35-42 % w/w	CA 64742-94-5	Xn	R 65, 66, 51/53

### 3. HAZARDS IDENTIFICATION

Human May cause harm to the unborn child  
Harmful: may cause lung damage if swallowed  
Skin: Irritant  
Eyes: Irritant  
Environmental: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### 4. FIRST AID MEASURES

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

**Eyes:** flush immediately with plenty of water for 15 minutes. Seek medical attention.

**Inhalation:** remove patient to fresh air. Seek medical attention if symptoms arise.

**Ingestion:** do not induce vomiting, rinse mouth with water; seek immediate medical attention and show the container label or this datasheet.

Guide to Doctor: there are no specific antidotes; treat symptomatically.

### 5. FIRE FIGHTING MEASURES

Wear full protective clothing, goggles and respirator. Call fire brigade for all but small, immediately controllable fires. Product and packaging will burn and toxic fumes may be evolved on heating. Avoid breathing smoke. Keep containers cool by spraying with water. Remove intact containers if without risk. 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 with sand or earth.

### 6. ACCIDENTAL RELEASE MEASURES

Wear coverall, face protection, rubber boots and suitable protective gloves. Keep people and animals away. Contain spillage, particularly to prevent contamination of water. Inform local water plc immediately if spillage enters drains. Inform the Environment Agency or Scottish Environment Protection Agency if spillage enters surface or ground waters. Absorb into sand, sawdust or other inert material. Collect all contaminated material and place in covered, labelled containers for disposal. Do not flush with water.

### 7. HANDLING AND STORAGE

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

### 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

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

Wash concentrate from skin or eyes immediately.

Do not breathe spray.

When using, do not eat, drink or smoke.

Wash hands and exposed skin before meals and after work.

Occupational exposure standards for N-methyl-2-pyrrolidone:

long-term exposure limit (8-hour TWA ref. period) = 25 ppm or 103 mg m<sup>-3</sup>

short-term exposure limit (15-minute ref. period) = 75 ppm or 309 mg m<sup>-3</sup>



## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: yellowish liquid  
Odour: of solvents  
Flash point: 101°C  
Flammability: not flammable  
Oxidising properties: none  
pH (5% v/v in water): 5 – 8  
Density: 1.025 g cm<sup>-3</sup> at 20°C  
Water solubility: product is miscible with water in all proportions

## 10. STABILITY AND REACTIVITY

Stable in packaging and in air. Keep in original packaging.

## 11. TOXICOLOGICAL INFORMATION

Acute oral LD<sub>50</sub> for rat: 2863 mg/kg.  
Acute dermal LD<sub>50</sub> for rat: >2000 mg/kg.  
Inhalation LC<sub>50</sub> (4-hour) for rat: >3.49 mg per litre of air.  
Skin irritation (rabbit): irritant  
Eye irritation (rabbit): irritant  
Skin sensitisation (guinea-pig): negative  
May cause harm to the unborn child

## 12. ECOLOGICAL INFORMATION

LC<sub>50</sub> (96-hour) rainbow trout = 3.2 mg/litre  
EC<sub>50</sub> (48-hour) Daphnia: >2.4 mg/litre  
EC<sub>50</sub> (72-hour) algae: = >2.7 mg/litre  
Honeybees: contact LD<sub>50</sub> > 177 µg per bee  
oral LD<sub>50</sub> > 188 µg per bee

## 13. DISPOSAL CONSIDERATIONS

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, LIQUID, N.O.S. (contains propaquizafop, solvent naphtha heavy aromatic and *N*-Methyl-2-pyrrolidone). UN 3082; Class 9; Packing group III

## 15. REGULATORY INFORMATION



T TOXIC

Contains 100 g/l propaquizafop and *N*-Methyl-2-pyrrolidone

R36/38 Irritating to eyes and skin  
R61 May cause harm to the unborn child  
R65 Harmful: may cause lung damage if swallowed



N DANGEROUS FOR  
THE ENVIRONMENT

R51/R53 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.  
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice  
S28 After contact with skin, wash immediately with plenty of water.  
S35 This material and its container must be disposed of in a safe way.  
S36/37 Wear suitable protective clothing and gloves.  
S39 Wear eye/face protection.  
S62 If swallowed, do not induce vomiting: 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

Issued: March 2009 revised November 2010 by re-classification of NMP.