

CLAYTON PLANT PROTECTION

CLAYTON PRIUS Safety Data Sheet according to Regulation (EU) No. 453/2010. Version 1/dsc 28/02/2019

This version replaces all previous versions

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- 1.1. Product identifier CLAYTON PRIUS MAPP18946
1.2. Relevant identified uses of the substance or mixture and uses advised. FUNGICIDE
1.3. Details of the supplier of the safety data sheet : Marketing Company in UK
Clayton Plant Protection (UK) Ltd., Bracetown Business Park, Clonee, Dublin15. Ireland.
Tel: (00 353) 1 8210127 www.claytonpp.com Email: info@claytonpp.com

SECTION 2: Hazards Identification

- 2.1 Classification of the substance or mixture
Classification according to Regulation (EC) No. 1272/2008 [CLP]
Acute toxicity - Oral Category 4 - (H302)
Serious eye damage/eye irritation Category 2 - (H319)
Reproductive Toxicity - Category 2 - (H361d)
Acute aquatic toxicity Category 1 - (H400)
Hazardous to the Aquatic Environment - Chronic Hazard - Category 1 - (H410)

Classification according to Directive 67/548/EEC or 1999/45/EC
Full text of R-phrases: see section 16. Xn;R22 - Xi;R36 - Repr. cat. 3;R63 - N;R50-53

- 2.2. Label elements. Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms :



Signal word - Warning

Hazard Statements	H302 - Harmful if swallowed H319 - Causes serious eye irritation H361d - Suspected of damaging the unborn child H410 - Very toxic to aquatic life with long lasting effects
Precautionary Statements	P102 - Keep out of reach of children P201 - Obtain special instructions before use P270 - Do not eat, drink or smoke when using this product P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P501 - Dispose of contents/ container to an approved waste disposal plant P280 - Wear protective gloves/protective clothing/eye protection/face protection***
EU Specific Hazard Statements	EUH401 - To avoid risks to human health and the environment, comply with the instructions for use EUH208 - Contains Propanoic acid, 2-hydroxy-, 2-ethylhexyl ester. May produce an allergic reaction***

Additional phrases for PPP SP1 - Do not contaminate water with the product or its container

- 2.3. Other hazards - No information available

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixture

Chemical Name	Weight %	CAS No	EC No	Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Classification according to 67/548/EEC	M-Factor	REACH Registration Number
Tebuconazole	11-13.5	107534-96-3	403-640-2***	603-197-00-7	Acute Tox. 4 (H302) Repr. 2 (H361d) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)***	Xn; R22 Repr.Cat.3; R63 N; R50-53***	M=1 M=10***	-
Prochloraz	22-27	67747-09-5	266-994-5	613-128-00-2	Acute Tox. 4 (H302) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	Xn; R22 N; R50-53	M=1 M=10***	-
Propanoic acid, 2-hydroxy-, 2-ethylhexyl ester	40-45	186817-80-1	-	-	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1 (H317)	Xi;R36/38 R43	-	-
Sodium dioctyl sulphosuccinate	1.5-3	577-11-7	209-406-4	-	Skin Irrit. 2 (H315) Eye Dam. 1 (H318) ***	Xi; R38-R41	-	-

Full text of R-phrases: see section 16 Full text of H- and EUH-phrases: see section 16

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Section 4: FIRST AID MEASURES

4.1. Description of first aid measures

General advice - In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). First aider: Pay attention to self-protection.

Inhalation - Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Call a physician.

Skin contact - Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Consult a physician if necessary.

Eye contact - Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.

Ingestion - Rinse mouth. Drink plenty of water. If symptoms persist, call a physician.

Self-protection of the first aider - Use personal protective equipment as required.

4.2. Most important symptoms and effects, both acute and delayed - Symptoms - None known

4.3. Indication of any immediate medical attention and special treatment needed -

Note to physicians - Treat symptomatically.

Section 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media - Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media - No information available.

5.2. Special hazards arising from the substance or mixture - No specific hazard known.

5.3. Advice for firefighters - In the event of fire, wear self-contained breathing apparatus. In the event of fire and/or explosion do not breathe fumes.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions - Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

For emergency responders - Use personal protection recommended in Section 8.

6.2. Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

6.3. Methods and material for containment and cleaning up - Take up mechanically, placing in appropriate containers for disposal.

6.4. Reference to other sections - Other Information - See also section 8,13

Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling - Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapours/spray. Use with local exhaust ventilation.

General Hygiene Considerations - Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse. When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions - Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labelled containers.

7.3. Specific end use(s)

Risk Management Methods (RMM) - The information required is contained in this Material Safety Data Sheet.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Derived No Effect Level (DNEL) - No information available

Predicted No Effect Concentration (PNEC) - No information available.

8.2. Exposure controls

Engineering Controls - Ensure adequate ventilation, especially in confined areas.

Personal protective equipment -

Eye/face protection - Tight sealing safety goggles.

Body Protection - Suitable protective clothing, Suitable protective clothing, Apron, Gloves made of plastic or rubber.

General Hygiene Considerations - Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse. When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended.

Environmental exposure controls - Do not allow into any sewer, on the ground or into any body of water.

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Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Property	Values	Method	Remarks
Appearance			
Physical state :	Liquid		
Colour :	orange light brown		
Odour :	No information available		
Odour threshold :	No data available		
pH :	6.8-7.8	CIPAC MT 75.3	solution (1 %)
Melting point/freezing point °C :	No data available		
Boiling point/boiling range °C :	No data available		
Flash point °C :	154	EEC A.9	
Evaporation rate :	Not Applicable		
Flammability (solid, gas) :	Not Applicable		
Upper/lower flammability or explosive limits :	No data available		
Vapour pressure kPa :	No data available		
Vapour density :	No data available		
Relative density :	1.04-1.12	EEC A.3	
Solubility(ies) mg/l :	No data available		
Partition Coefficient (n-octanol/water) Log Pow :			See Section 12 for more information
Autoignition temperature °C :	275	EEC A.15	
Decomposition temperature °C :	No data available		
Kinematic viscosity mm ² /s 40 °C :	43.469	OECD 114	
Explosive properties :	Not an explosive		
Oxidizing properties :	No data available		
9.2. Other information			
Bulk density g/ml :			
Surface tension mN/m :	35.6	OECD 115 EEC A.59.2.	

Section 10: STABILITY AND REACTIVITY

- 10.1. Reactivity Not available.
10.2. Chemical stability Stable under normal conditions.
10.3. Possibility of hazardous reactions None under normal processing.
10.4. Conditions to avoid Heat, flames and sparks.
10.5. Incompatible materials No information available
10.6. Hazardous decomposition products None under normal use conditions.

Section 11: TOXICOLOGY INFORMATION

11.1. Information on toxicological effects

Acute toxicity :-	Values	Species	Method	Remarks
Oral LD50 mg/kg :	2000	Rat	OECD 423	
Dermal LD50 mg/kg :	>2000	Rat	OECD 402	
Inhalation LC50 mg/l/4h :	>5.35	Rat	OECD 403	
Skin corrosion/irritation :	Non-irritating to the skin	Rabbit	OECD 404	
Serious eye damage/eye irritation :	Irritating to eyes	Rabbit	OECD 405	
Respiratory/skin sensitization :	Not a skin sensitizer***	Guinea pig	OECD 406	
Chronic toxicity :-				
Germ cell mutagenicity Tebuconazole :	Not classified			
Prochloraz :	Not classified***			
Carcinogenicity . Tebuconazole :	Not classified			
Prochloraz :	Not classified***			
Reproductive toxicity Tebuconazole :	H361d - Suspected of damaging the unborn child			
Prochloraz :	Not classified***			
STOT - single exposure Tebuconazole :	No information available			
Prochloraz :	No data available***			
STOT - repeated exposure Tebuconazole :	No information available			
Prochloraz :	No data available***			
Aspiration hazard Chemical Name Tebuconazole :	No information available			
Prochloraz :	No data available***			

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Aquatic toxicity

Acute toxicity	Values	Species	Method	Remarks
Fish 96-hour LC50 mg/l :	1.77	Oncorhynchus mykiss	OECD 203	Static
Crustacea 48-hour EC50 mg/l :	12	Daphnia magna	OECD 202	

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Algae 72-hour EC50 mg/l :	0.41	Selenastrum capricornutum OECD 201	Static
Other plants EC50 mg/l :		***	***
Terrestrial Toxicity			
Birds Oral LD50 mg/kg			
Chemical Name Tebuconazole :	1988	Bobwhite quail	
Prochloraz :	624***	Bobwhite quail***	US EPA 71-1***
Bees Oral LD50 µg/ bee			
Chemical Name Tebuconazole :	83.05		Oral***
Prochloraz :	684***		

12.2. Persistence and degradability

Abiotic Degradation	Values	Method	Remarks
Water DT50 days Tebuconazole :	365		
Prochloraz :	11.7***		
Soil DT50 days Tebuconazole :	34.8		
Prochloraz :	223.62***		
Biodegradation Tebuconazole :	Not readily biodegradable	OECD 301B	
Prochloraz :	Not readily biodegradable***	OECD 301 D***	

12.3. Bioaccumulative potential

Partition Coefficient (n-octanol/water)Log Pow	Values	Method	Remarks
Tebuconazole :	3.7		
Prochloraz :	4.3***	EEC A.8***	20-25 ° C***
Bioconcentration factor (BCF) Tebuconazole :	78		
Prochloraz :	150-247***		

12.4. Mobility in soil

Adsorption/Desorption	Values	Method	Remarks
Chemical Name Tebuconazole :	769		Koc
Prochloraz :	1222-8654***		Koc***

12.5. Results of PBT and vPvB assessment. The components in this formulation do not meet the criteria for classification as PBT or vPvB

12.6. Other adverse effects : No information available.

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from residues/unused products - Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging - Improper disposal or reuse of this container may be dangerous and illegal.

Other Information - Waste codes should be assigned by the user based on the application for which the product was used.

Section 14: TRANSPORTATION INFORMATION

IMDG / IMO	14.1 UN/ID No 3082 14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Tebuconazole, Prochloraz) 14.3 Hazard Class 9 14.4 Packing Group III 14.5 Marine pollutant Yes 14.6 Special precautions for user
RID/ADR	14.1 UN/ID No 3082 14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Tebuconazole, Prochloraz) 14.3 Hazard Class 9 14.4 Packing Group III 14.5 Environmental hazard Yes 14.6 Special precautions for user
ICAO/IATA	14.1 UN/ID No 3082 14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Tebuconazole, Prochloraz) 14.3 Hazard Class 9 14.4 Packing Group III 14.5 Environmental hazard Yes 14.6 Special precautions for user 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code - Not Applicable

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Section 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

15.2. Chemical safety assessment. A chemical safety assessment according to regulation (EC) No. 1907/2006 is not required. A risk assessment was performed according to directive (EC) No. 91/414 or according to regulation (EC) No. 1107/2009.

Section 16: OTHER INFORMATION

Full text of R-phrases referred to under sections 2 and 3

R43 - May cause sensitization by skin contact

R22 - Harmful if swallowed

R63 - Possible risk of harm to the unborn child

R36/38 - Irritating to eyes and skin

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

R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Full text of H-Statements referred to under sections 2 and 3

H302 - Harmful if swallowed

H361d - Suspected of damaging the unborn child

H411 - Toxic to aquatic life with long lasting effects

H315 - Causes skin irritation H319 - Causes serious eye irritation

H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.